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JULY 14, 1917.

LONDON, E.C. 4.

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JULY 14, 1917.

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### DIRECTIONS OF THE CONTROLLER OF COAL MINES.

Dated 4th July, 1917.

FOR THE PURPOSE OF RE-ORGANISING THE

### TRANSPORT OF COAL BY PUBLIC RAILWAY for INLAND CONSUMPTION

Issued under Section 3 of the Coal Transport Order, 1917, made by the Board of Trade under Regulations 2 F. to 2 J.J. and 9 G. of the DEFENCE OF THE REALM REGULATIONS.

(1) No person shall, after the 8th September, 1917, without the consent of the Controller of Coal Mines, buy or sell, or offer to buy or sell, coal to be forwarded by public railway for inland consumption to any area other than those to which the coal in question may be so forwarded under the Coal Transport Re-organisation Scheme, as set out in these directions.

(2) For the purposes of the aforementioned scheme, Great Britain has been divided into areas numbered from 1 to 20 on two maps\* of England and Wales and of Scotland respectively, and the following table shows the areas to which coal produced in each of the areas specified in the first column may be forwarded by public railway for inland consumption for the purposes indicated in the second, third and fourth columns.

Area of Production.	Areas to which the forwarding of Coal by Public Railway for Inland Consumption is confined by these Directions.			
	Steam and Manufacturing.	Gas and Cokeing.	House.	
No.  1. Northumberland 2. Cumberland 3. Durham 4. Lancashire 5. Yorkshire 6. North Wales 7. North Stafford 8. Eastern Counties 9. Shropshire 10. Birminghm and District 11. Northants to Essex 12. South Wales and Monmouthshire 13. South Western Counties 14. South Western Counties 15. Derby and Nottingham 16. Leicester	Area No. 1, 2, 3. 2, 3. 4, 6. 3, 4, 5, 7, 8, 10, 11, 14, 16. 6, 7, 9. 9, 12, 13. 9, 10, 11, 13, 14.  12, 13, 14. 13. 14. 4, 6, 7, 8, 10, 11, 13, 14, 15, 16. 10, 11, 14, 16.	Area No. 1. 2. 2, 3. 4, 5, 7, 8, 10, 11, 13, 14, 16. 6, 7, 9, 10. 9, 13 12. 13. 14. 4, 7, 8, 10, 11, 14, 15, 16.	Area No. 1, 2: 2, 3. 4, 5, 7, 8, 10, 11, 14, 16. 6, 7, 9. 9, 12, 13. 9, 10, 11, 13, 14. 12, 13. 13. 14. 4, 6, 7, 8, 11, 14, 15, 16. 10, 11, 14, 16.	
SCOTLAND.  17. SOUTH EASTERN  18. NORTH WESTERN  19. NORTH EASTERN  20. SOUTH WESTERN	17. 18. 17, 18, 19. 18, 20.	17. 18. 19. 20.	17. 18. 17. 18, 19. 20.	

\* Copies of these maps, also a diagram illustrating the effect of the Scheme on the Area interchanges have been prepared, by the Railway Clearing House, and may be obtained, with a pamphlet embodying full instructions, by all concerned, post free, on application to the Secretary, Railway Clearing House, 123 Seymour Street, London, N.W.1.

(3) In accordance with the provisions of Sections 2 and 3 of the Coal Transport Order, 1917, every contract for the sale of coal is hereby abrogated as from 6 p.m. on the 8th September, 1917, in every case in which this is necessary, in order that the re-allocation of the supplies of coal, as provided for in clause 6 of these directions, may be effected.

[On and from September 10th, new contracts for the sale of coal affected by the scheme will come into operation, and all necessary arrangements to this end must be completed not later than September 8th, but it is obviously desirable that completion should be reached as much in advance of that date as possible.]

as much in advance of that date as possible.]

(4) Every Colliery Owner shall, on receipt of instructions from the District Coal and Coke Supplies Committee in whose area the Colliery is situated, furnish the Committee with returns giving the following information as respects forwardings by public railway, for inland consumption during June, 1917, of each description of coal produced at the Colliery:

(a) In the case of coal sold direct to consumers or retail merchants, the name and address of the consumer or retail merchant, and the tonnage of each description forwarded by rail to each in the area specified by the Committee, for each of the following purposes: (a) Steam-raising and Manufacturing, (b) Gasmaking, (c) Coke ovens, (d) Household use.

(b) In the case of coal sold to factors and wholesale merchants, the name and address of the factors or wholesale merchant and the tonnage of each description forwarded by rail to each in the areas specified by the Committee, for each of the following purposes: (a) Steam-raising and Manufacturing, (b) Gasmaking, (c) Coke ovens, (d) Household use.

(c) In the case of every consignment of coal during June, the destination of which was unknown to the Colliery Owner, the name, address, and business of the purchaser and the weight and description of each consignment.

(d) Such information as to the provision of wagons as the Committee

(d) Such information as to the provision of wagons as the Committee may require.

Every Colliery Owner shall furnish the above returns to the District Coal and Coke Supplies Committee, so as to be in the hands of the Committee within seven days of the date of the despatch of the instructions by the Committee to the Collieries in their area.

(5) In every case in which the area of consumption of coal sold to a factor or merchant is unknown to the Colliery Owner, the District Coal and Coke Supplies Committees will apply to every such factor or merchant for a statement giving, as respects such coal, the tonnage of each description forwarded by rail for consumption in each of the areas as referred to in clause 4 of these directions, for each for the purposes named therein (a) Steam-raising and Manufacturing, (b) Gas-making, (c) Coke ovens, (d) Household use, and every such factor or merchant shall furnish such return to the Committee so as to be in their hands within three days of the date of application. date of application.

In cases where coal is sold by one factor or merchant to another, and the area of consumption of the coal is unknown to the seller, the seller shall state on the above-mentioned return the name and address of the purchaser and the weight and the description of coal in each case.

(6) On receipt of the returns specified in clause 4, the District Coal and Coke Supplies Committees will arrange for meeting the requirements of purchasers whose supplies have been affected by the Scheme, out of the tonnage of coal which will be available and sufficient for the purpose, by diversion from other areas under the operation of the Scheme. This tonnage will consist of the following:

(a) The tonnage of coal hitherto forwarded by public railway from the areas specified in the first column of the table shown in clause 2 of these directions, to areas other than those specified in the second, third, and fourth columns as permissible areas for the coal in question.

coal in question.

(b) Such portion of the tonnage hitherto forwarded to other areas as it may be necessary for the Committee to divert under detailed instructions from the Controller of Coal Mines.

[CONTINUED ON NEXT PAGE.

The District Coal and Coke Supplies Committees will inform each of the Colliery Owners in their area of the tonnages (if any) to be diverted from these areas, and will specify the factors, merchants, and direct consumers, whose supplies are to be reduced or discontinued, with the descriptions and quantities of coal to be diverted from each.

(7) The whole tonnage of coal diverted under the operation of the scheme as mentioned in clause 6 shall be reserved by the Collieries for disposal in accordance with instructions to be given by the District Coal and Coke Supplies Committee, who will notify each Colliery Owner in their area of the factors, merchants, and direct consumers to whom the coal is to be supplied after the 8th of September, 1917, and of the descriptions and quantities to be supplied to each.

(8) The Collieries will then communicate direct with the factors, merchants, and direct consumers allotted to each, and in offering the authorised weight and description of coal will, at the same time, state whether wagons can be supplied by the Colliery. If the Colliery is unable to provide wagons or can provide only a portion of them, this must be stated when offering the coal, and the factors, merchants, and direct consumers asked if they can provide wagons.

asked if they can provide wagons.

In cases where factors, merchants, and direct consumers state they are unable to provide wagons, the Colliery must at once notify this, with full particulars, to the District Coal and Coke Supplies Committee, who will then endeavour to arrange for supplies of wagons, and if unable to do so, report the circumstances to the Controller of Coal Mines. It must, however, be understood that where factors, merchants, and direct consumers are to-day providing the wagons for the existing supplies which are to be discontinued as from the 8th September, under the instructions of the District Committee they must continue to provide wagons for the new supplies substituted by the Committee, except in cases where the Collieries indicate their ability to meet demands with their own wagons or those of railway companies.

(9) Every Colliery shall notify all factors, merchants, and direct consumers to whom coal has been sold, the delivery of which will be affected by the scheme, of the discontinuance or reduction of supplies as from the 8th September, 1917. Such notifications shall be made:

(a) In the case of coal forwarded to areas prohibited under clause 2 of these directions, as soon as possible after the publication of these directions;

(b) In the case of coal forwarded to other areas in reduced quantities, as soon as possible after the receipt of instructions from the District Coal and Coke Supplies Committee as to the factors, merchants, and direct consumers whose supplies will be (10) These directions are designed so as to leave the initiative with the District Coal and Coke Supplies Committees. Factors, merchants, and direct consumers whose supplies after the 8th September, 1917, are affected by the scheme are not to apply to Collieries for supplies in substitution, but must wait until they receive communications from such Collieries as are instructed by the District Coal and Coke Supplies Committees to provide the supplies required under the scheme. Provided that if any factor, merchant, or direct consumer does not hear from a Colliery or Collieries respecting such supplies as affected under the scheme by August 27th, a communication shall at once be sent to the District Committee controlling the area, responsible for supplying such factor, merchant, or direct consumer, furnishing details of the quantities and description of coal required, together with the names of Collieries from whom such supplies were actually drawn, and would continue to be drawn up to 6 p.m. on September 8th, 1917. Also that if a Colliery has not, by August 20th, 1917, received particulars of the allocation of its coal which is being displaced under the scheme it shall, on that date, communicate with the District Coal and Coke Supplies Committee concernéd.

(11) The Controller of Coal Mines will furnish the District Coal and (11) The Controller of Coal Mines will furnish the District Coal and Coke Supplies Committees with information regarding the present distribution of certain special descriptions and qualities of coal which are required for certain purposes, such as for coke ovens, gas producers, and automatic stokers, and the names of firms who are entitled to priority in respect of their requirements of such fuel. Such firms will receive certificates issued by the Controller of Coal Mines entitling them to receive specified supplies of the special fuels mentioned in the certificate, and the Committees will take steps to provide the fuel in question, by diversion, where necessary, from from who have not received certificates. have not received certificates.

Every person shall comply with the instructions of the District Coal and Coke Supplies Committees with regard to the distribution of descriptions and qualities of coal, which it may be necessary to deal with, as special fuels under this clause.

(12) These directions do not affect:

- (a) Coal conveyed to a port for shipment, whether for export, coast-wise or bunkers.
- (b) Coal conveyed otherwise than by public railway from the Colliery. (c) Anthracite.

In the case of rail-borne coal transhipped for delivery by barge or to be delivered by road vehicle, the point to which the traffic is forwarded by public railway is to be regarded as the destination for the purpose of complying with these directions.

13) These directions may be revoked or varied by the Controller of Coal Mines as occasion arises.

GUY CALTHROP, Controller of Coal Mines.

### EXPLANATORY NOTES.

The Scheme outlined in the foregoing Directions will, it is estimated, effect a saving in railway transport of not less than 700 million ton miles annually.

A.—Coal already being produced and consumed within the one area is ignored, and therefore it will not be necessary, as a rule, to interfere with existing contracts or sales affecting such coal.

B.—The District Coal and Coke Supplies Committees will deal with all coal affected by the scheme. There will be no need for factors, merchants, and direct consumers to take any steps under the scheme. They will simply wait until they are communicated with on the subject, except so far as the position is governed by clause 10 of the Directions.

C.—The District Committees, acting for the Controller of Coal Mines, have full powers to deal with the scheme as a whole, and are to be the medium for clearing up any doubtful points which may arise.

D .- As an organisation designed to relieve transport, the Scheme has been based on four main issues:

pased on four main issues:

(1) That consumption of coal should take place as near the producing point as possible.

(2) That in view of the superior facilities afforded by the main Trunk Lines, the movement of traffic should follow these routes wherever possible.

(3) That the movement of coal'should, as far as possible, be in'well-defined directions, viz.: North to South, North to South-East, North to South-West, East to West.

(4) That an area producing less coal than suffices for its own needs should not send any portion of its output to other areas. That an area producing more coal than it requires for consumption within the area itself, should only distribute the balance to adjacent or convenient areas.

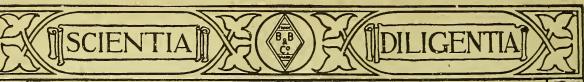
E.—The only limitation in regard to the foregoing clause (4) is the need for providing coal of a special type for certain purposes (this need has been determined by getting in touch with consumers direct), and is referred to in clause 11 of the Directions.

F.—All concerned are strongly advised to secure a map, diagram, and pamphlet, as indicated in the footnote to Clause 2 of the Directions, as these documents will be found to be of material assistance.

G .- It is emphasised that this scheme does not affect waterborne coal, either export, coastwise, or bunkers, anthracite or coke of any description

H.—A List of the District Committees governing the various areas, together with the name and addresses of Secretaries, is appended:

No. Area.	Secretary of District Coal and Coke Supplies Committees.
No. Area.  1. (NORTHUMBERLAND) 2. (CUMBERLAND) 3. (DURHAM) 4. (LANCASHIRE) 5. (YORKSHIRE) 5. (YORKSHIRE) 6. (NORTH YORKS COLLIERIES WEST YORKS COLLIERIES 6. (NORTH WALES) 7. (NORTH STAFFORD) 8. (EASTERN COUNTIES) 9. (SHROFSHIRE) 10. (BIRMINGHAM AND DISTRICT) 11. (NORTHANTS TO ESSEX) 12. (SOUTH WALES) 13. (SOUTH WALES) 14. (SOUTH WESTERN COUNTIES) 15. (NORTS AND DERBY) 16. (LEICESTER)	R. GUTHRIE, Esq., Coal Trade Office, Newcastle-on-Tyne. T. P. Martin, Esq., 19 Falcon Street, Workington. R. GUTHRIE, Esq., Coal Trade Office, Newcastle-on-Tyne. Sir T. R. Ratcliffe Ellis, 18 King Street, Wigan.  MESSRS. Parker, Rhodes & Co., 14 Moorgate Street, Rotherham. A. B. Smith, Esq., Central Bank Chambers. Leeds. W. H. Haswell, Esq., Elwy House, King Street, Wrexham. Major J. Selby Gardner, Cannock, Stafford. W. Saunders, Esq., Bank Chambers, London Road, Derby. Major J. Selby Gardner, Cannock, Stafford. W. Saunders, Esq., Bank Chambers, London Road, Derby. Finlay A. Gibson. Esq., Park Place, Cardiff. J. G. Dennehy, Esq., Albion Chambers, Bristol. W. Saunders, Esq., Bank Chambers, London Road, Derby. W. Saunders, Esq., Bank Chambers, London Road, Derby. W. Saunders, Esq., Bank Chambers, London Road, Derby.
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IT SHOULE & CHEMICAL MNFG. CO., Ld. is

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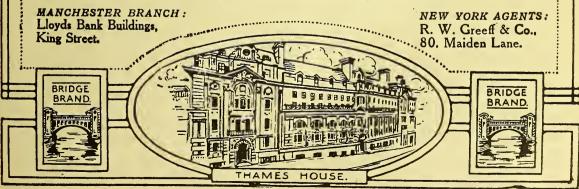
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# DAISY TABLETS FREE



### Last Week of Generous Offer.

S outlined in last week's issue, we are giving (for this week only) a special bonus of 4-dozen tins free to all buyers of one dozen.

Since their introduction in December last, Daisy Tablets have been strongly advertised with big spaces in all the leading newspapers and journals, and there is in consequence already a heavy demand. An even larger and more extensive advertising campaign to start immediately is being prepared which will greatly increase this demand, and we are very desirous that every chemist should be in a position to supply them. With this end in view we have decided to make this special offer to chemists for a trial order.

### 1-Dozen Tins Free with each One Dozen Order.

It must be clearly understood that this offer cannot be repeated, and that it holds good for a period of one week only from the date of issue of this paper. The only condition we impose is that the chemist exhibits two of our showcards -one in his window, the other in a prominent position in his shop-for a period of not less than 14 days.

Avail yourself of this generous offer to-day. Sign the enclosed Coupon and forward it to us. Do it now-this offer holds good for one week only.

#### COUPON.

To Messrs. DAISY LTD., LEEDS.

Please send carriage paid to my address one dozen tins Daisy Tablets, with a free bonus of \(\frac{1}{2}\)-doz, tins, for which I agree to pay the sum of \(12/\)9 net. I promise to exhibit two showcards, one in my window, the other in a prominent position in my shop, for a period of not less than 14 days.

Signed .....

Date...... Address ..... This Coupon becomes void 7 days after date of issue of this paper.

Mammoth Works,

ESTABLISHED 1893.

Telegrams: "DAISY LEEDS."



The completed Toilet gives the utmost satisfaction to the woman who places her confidence in Maw's "PAREX" (Regd.) preparations. It pays to sell tried and trusted goods.

### "PAREX" (Regd.) TALCUM POWDER

In Carnation, Violet, or White Rose. Each perfume may be had in White, Cream, or Pink.

7/2 per doz. with bonus.

### "PAREX" (Regd.) LIP SALVE

In pure tin cases.

Daintily labelled, Red or White.

3/9 per doz. with bonus.

### "PAREX" (Regd.) BATH POWDER

In six perfumes.

1/- size, 7/9 per doz. with bonus.

### "PAREX" (Regd.) CREAM DE LUXE

The most delightful preparation, invaluable for making and keeping the skin soft and velvety.

10/5 per doz.

### "PAREX" (Regd.) SHAMPOO POWDER

Tonic, Cleansing and Refreshing. "The Perfect Shampoo."

8/6 per doz. with bonus.

### "PAREX" (Regd.) BEAUTY LEAFLETS

Exquisitely perfumed in White, Cream or Pink. 3/- per doz. with bonus.

### "PAREX" (Regd.) DENTAL CREAM

The Tooth Paste which is "As perfect as Science can make it."

7/9 per doz. with bonus.



### SCHOOL PHARMACY

#### PHARMACEUTICAL SOCIET

The School provides systematic courses of instruction for the Minor and Major Examinations of the Pharmaceutical Society. Both Courses commence in October, the Minor Course continuing until the end of June 1918.

Arrangements have been made to admit to Special Shorter Courses Students who can satisfy the Dean that they have already received adequate scientific training.

Applications for admission to the School, or for any information respecting it, should be addressed to—

THE DEAN OF THE SCHOOL (Prof. Greenish, F.I.C.), 17 Bloomsbury Square, W.C.

### WESTM

Phone: BRIXTON 1728.

Principals: G. S. V. WILLS, Ph.C. (Founder); P. H. WOODNOTH, M.P.S.

### MINOR **EXAMINATIONS**

JANUARY.



APRIL.

MINOR REVISION COURSE, August 15 APOTHECARIES' HALL COURSE, August 15

APOTHECARIES' HALL PASS LIST, APRIL 1917.

ADAMSON, I. M. W... Harlington
ANTHONY, A. ... Abercynon
BROAD, D. M. ... Wandsworth
CHURCHIELD, C. E. ... London
CHURCHILL, E. M. Maida Vale

DERRICK, E. G. ... Oxford
DOD, M. F. ... Clapham
GILDERSON, M... ... Ilford
MORGAN, E. ... ... Pentre

DERRICK, E. G. ... Oxford
DOD, M. F. ... ... Clapham
GILDERSON, M... ... Ilford
MORGAN, E. ... ... Pentre

SPENCE, E. E. Portslade-by-Sea

Woodward, D. M. ... Streatham

For Prospectus, &c., Call, Write or Phone THE PRINCIPALS, 190 Clapham Road, London, S.W. 9.



NOW THE EXTRA PHARMAG READY.

By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915).

REVISED AND ENLARGED.

PRICE 21s. net; postage 5d., abroad 6d.
Separately, Vol. II., 14s. net; postage 5d.
Vol. II., 7s. net; postage 3d.

"It is a book that is indispensable to the modern pharmacist, and in this case an eld edition is not 'just as good.'"—Chemist and Druggist.

"The two volumes together form an invaluable compendium of information."
"A work of great utility."—The Lancet. [British Medical Journal.

The Extra Pharmacopœia maintains its high standard and more. All interested will welcome this new edition of an indispensable book."—Pharmaccutical Journal.

LONDON: H, K. LEWIS & CO. LTD., 136 GOWER ST., LONDON, W.C. Also of W. MARTINDALE, 10 NEW CAVENDISH STREET, LONDON, W.

Tel. Address: "Pillischer London."

Established 1843

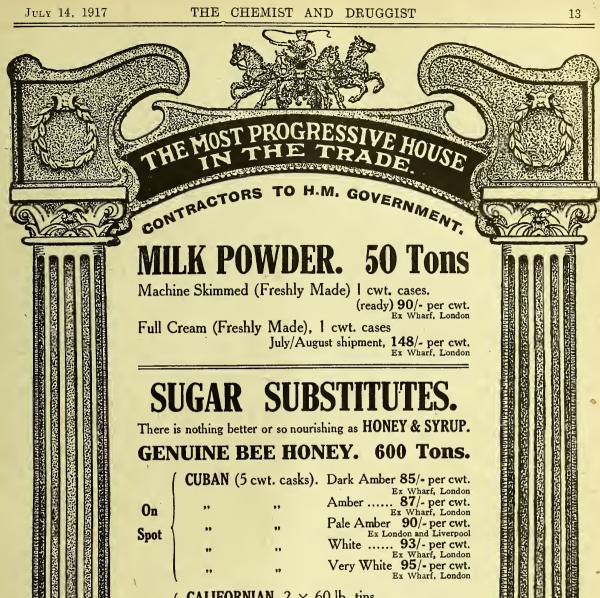
Telephone: 4418 Gerrard.

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MANUFACTURER OF SCIENTIFIC INSTRUMENTS AND

CELEBRATED MANUFACTURER OF "INALTERABLE" CLINICAL THERMOMETER.

RECENT EXHIBITIONS: 12 GOLD MEDALS-14 GRANDS PRIX. Sole and exclusive agents for Argentina, Uruguay and Paraguay: M. Etchegoin, Stabile y Meoli, 255 Calle Montevideo, Buenos Aires.



CALIFORNIAN, 2 × 60 lb. tins. White Sage 105/- per cwt.
Ex Liverpool On White ..... 100/- per cwt. Spot Ex Wharf, London Pale Amber 95/- per cwt. Ex Wharf, Liverpool

JAMAICA (3 cwt. barrels), afloat.

Amber..... 90/- per cwt.

Ex London &/or Liverpool
Pale Amber 97/- per cwt.

Ex London &/or Liverpool
White ..... 99/- per cwt. Ex London &/or Liverpool

VALUE

Telephones: 766 AYENUE. 3 Lines.

> LIVERPOOL BANK 4026.

20, EASTCHEAP, LONDON, E.C.

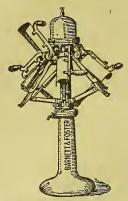
Telegrams CHERRIPEL BILGATE CHERRIPES; LIVERPOOL

### **Crowning Machines**



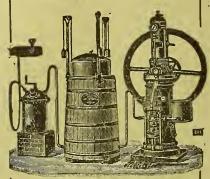
Foot, hand, and power operated crowners for all outputs. and without Automatic Feed.

### "Roundabout" Fillers



For all bottles. Fill on our backpressure system and save 50 per cent. in working costs. Nine sizes, hand and power

### " Niagara" Soda-water Machines



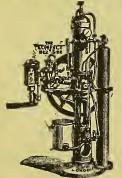
Capacities from 100 to 6,000 doz. of 10-oz. bottles per day. Supplied complete with gas-work and automatic saturating cylinder. The best machine for export.

# Everything for Bottling BARNETT & FOSTER,

Dept. N1, Eagle Wharf Road, LONDON, N.1 ENGLAND.

Latest Lists Post Free Anywhere.

### "Compact" Soda-water Machines



For use with liquefied carbonic acid gas. A complete mineral water plant, comprising sodawater machine and one or two fillers on one base. Easy to instal, simple to operate. Outputs up to 1,200 doz. bottles per day.

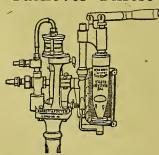
### Syphon Fillers

Small and large, hand and power, machines. Can be supplied to fill on our backpressure system.

### **Bottles & Syphons**

We can always supply codd, crown, cork, swing or screw stoppered bottles in all sizes, also our "London Made" syphons with pure tin tops.

### Turnover Fillers



Our famous "Ideal." With this machine a lad can fill and syrup 80 dozen large bottles per hour.

# Develop your Table Water Trade.

A remarkable War opportunity.

You can build up a large, permanent, and valuable Trade within the next few weeks if you stock Salutaris, the famous British Table Water.

Wine, beer, mineral waters—all are growing daily scarcer and more expensive. But the supplies of Salutaris are practically unlimited. Put Salutaris where people can see it—and they will buy it.

The merits of Salutaris are being advertised throughout the Kingdom—and in the papers your customers read. Thousands of pounds are being spent; tens of thousands of customers will soon be asking for Salutaris.

# Salutaris

C. & D

"No foreign Table Water," said Sir Henry Thompson, "is so pure, or half so easy to obtain." And though Salutaris is still quite cheap in price, you will find it where ambassadors and princes dine together—at the Ritz, at the Carlton, at the Savoy.

The trade in Salutaris is a good-class trade; a quick trade, and a profitable trade. Do not let it pass your door. The time to order is now, for the big advertising is just beginning, and the shortage of competing lines is increasing every day.

Write to-day for full, particulars and prices.

### FOR DISPENSING.

Experience shows that Salutaris A.D. Water is far superior to ordinary distilled water for use in dispensing, for the exceptional purity of Salutaris develops the full power of drugs, perfecting their action, and ensuring that highest degree of excellence which alone can yield the results required by the physician. These results are due to the Salutaris Process of Distillation, which possesses an hygienic value not approached in merit by any other system.

To	the S	ALUT	ARIS C	O., L7	۲D.,
236	Fulham	Road,	LONDON	, S.W.	10.

Kindly send full particulars and trade and retail prices of your Still, and Sparkling Salutaris, as well as particulars of your "A.D." water for dispensing.

Signed				-	
	Address				
	1				
		Pleas	e write cle	arly.	



DISORDERS of the LIVER, GOUT,

Diabetes, Rheumatism, Gravel, &c.

### VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: IN'-RAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.



There is no better Flask made than the

"ALL BRITISH" VACUUM F L A S K,

of which not only the protective outer casing but the essential glass vacuum bottle are

MADE IN ENGLAND.

SOLE MAKERS-

### **AERATORS LIMITED**

"Prana" Sparklet Works,
UPPER EDMONTON, LONDON, N.

### More Filter Business for You

Hotels, Hospitals, Sanatoria, Country Houses, Private Houses, all are ready buyers of a good filter.

And the sale of one GOOD filter invariably brings others.



THE

# Berkefeld Filter

is a GOOD Filter. The system is GOOD, materials are GOOD, manufacture is excellent, while profits are GOOD.

There is a good variety of patterns, and prices are within the reach of practically everybody.

AGENTS ARE WANTED EVERYWHERE.

The Berkefeld Filter is owned and made by the Firm with nearly ninety years' reputation in this line—Slack & Brownlow, of Gorton.

Catalogues and Illustrated Lists gladly sent on request to-

The BERKEFELD FILTER Co. (BRITISH)
Imperial House, Kingsway, LONDON, W.C. 2.

Telephone-Gerrard 3994.

(2



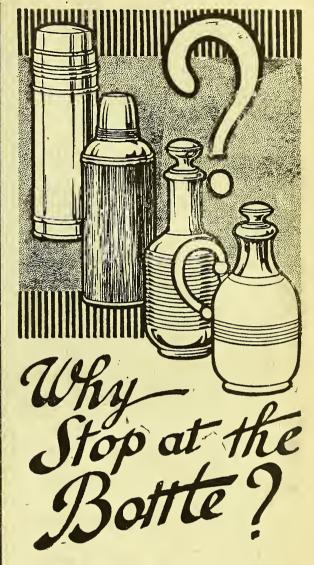
The Finest Quality Aerated Waters are made only with the Finest Quality ESSENCES

# Boake Roberts'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon Ginger Ale
Orange Stone Ginger (Cloudy)
Ginger Clear Ginger Beer
Raspberry Kola Champagne
Strawberry Lime Juice and Soda
Pineapple Lemon Squash Vanilla

A. Boake Roberts & Co. L. Stratford, London



IF your customers can buy and use the THERMOS Bottle, they can also find a use for THERMOS Jugs, Food Jars, and Carafes. If you can sell the one you can surely sell the others. Why not try a few in stock?

CATALOGUES, &c., ON REQUEST

# THERMOS

BYRON HOUSE, 2 & 4 Finsbury St., London, E.C.



### **GENATOSAN'S** FORTNIGHTLY LETTER.

### No. 3.—Send for Our New Showcard.

DEAR SIR,—We have on order 5,000 copies of the Showcard illustrated above, and are daily expecting delivery. If you wish to secure a copy, we advise you to apply for it at once, as the demand will probably exceed the supply.

The illustration gives you no adequate idea of the attractiveness and selling-power of the Showcard. It is beautifully printed by 5-colour process, and gelatined by a special new process, which not only gives it a handsome glossy finish but renders it impervious to dirt and to the fading action of strong sunlight. Being stoutly mounted, with a strut and hanger, it can be used either as a counter-card or in your window.

The artist was recently commissioned to paint por-traits of their Majesties the King and Queen; and you will be interested to hear that our Showcard design, originally used as a press advertisement, has since been reproduced in a German newspaper with furious threats as to the dire penalties which we shall suffer after the War for daring to acquire the Sanatogen

We much regret that, owing to shortage of paper, we are unable to continue supplying counter-bills; but this will be resumed at the earliest possible moment.

We are, dear Sir, yours faithfully,

GENATOSAN LTD. (Chairman: Lady Mackworth) 12 CHENIES ST., LONDON, W.C. 1.

### IN PRIZE.

By Order and for Account of THE MARSHAL OF THE ADMIRALTY.

Ex TRANQUEBAR, lying Newcastle-on-Tyne.

To be sold by PUBLIC TENDER on WEDNESDAY, JULY 25, 1917,

### SUNDRY CHEMICALS.

Including Acetic Acid, Alum, Ammon. Carb., Ammon. Chlori'e, Ammon. Solution, Arsenic, Bleaching Powder, Boracic Acid, Chrome Alum, Epsom Salts, Glauber Salts, Litharge, Magnesia, Manganese Peroxide, Potash, Soda Sulphate, Talc, Tannic Acid, Ultramarine Blue, etc.

To be Sold subject to Government restrictions as to export. Tenders in envelopes marked "TENDER FOR CHEMICALS," and addressed to "THE ADMIRALTY MARSHAL, Royal Courts of Justice, London, W.C. 2," must be receved not later than NOON on 25th inst., and same will be opened by the Marshal,

Samples may be seen and Tender Forms and all further particulars obtained at the Offices of the Selling Brokers, D. W. GREENHOUGH & SON, 21 Mincing Lane, E.C. 3.

# PASCALL'S

**GOLDEN** 

Contains 25% Pure Malt Extract



of especial food value

for Children.

¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

T Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

The Improved Casein-Glycerophosphate Food

and Nerve Restorative

# BU

Sich Sp. Co. St. Co. S

GEN Trade Mark

### An Easily Digested Nerve Food Rich in Phosphorus

Composition of "Bynogen."

"Bynogen" is a combination of pure Milk Protein, 75 per cent., and specially prepared Dextrin-Maltose, 20 per cent., with 2 per cent. each of the Glycerophosphates of Soda and Lime, and 1 per cent. of Glycerophosphate of Magnesia.

#### Uses of "Bynogen."

"Bynogen" is indicated in all Enfeebled Conditions, in Convalescence after Severe Illness, Mental and Nervous Exhaustion due to worry or overwork, Insomnia, Physical Fatigue, Wasting Diseases, Anæmia,

Digestive Troubles, etc.
"Bynogen" is very helpful to
Nursing Mothers for overcoming the strain caused by
breast feeding.

Minimum Retail Prices: 1/9 and 3/- per bottle.

Gross Wholesale Prices: 17/- and 29/- per doz. bottles respectively.

Allen & Hanburys Ltd.

### A Concentrated Nutrient and Restorative

Advantages of "Bynogen."

"Bynogen" possesses a most attractive flavour and thereby overcomes the objection hitherto experienced in other somewhat similar products.

"Bynogen" strengthens digestion, improves nutrition, and does not cause constipation.

"Bynogen" is delicious when sprinkled on puddings, toast, etc. It mixes readily with milk and other fluids, or it may be eaten plain if desired.

### Profit on "Bynogen."

"Bynogen" yields a profit on return of 25% monthly a/c terms. When "Bynogen" forms part of a £5 carriage paid general order for the "Allenburys" Specialities the profit on "Bynogen" is increased to 27½%

SAMPLES AND DESCRIPTIVE LEAFLETS FREE ON REQUEST

Lombard St., London.





# Sanaphos

### For all Disorders of Nutrition and Nerves

NUTRITION needed for nerves in neurasthenia and nervous debility in these nerve-wearing and distracting times is amply supplied by SANAPHOS, which is not a one-constituent food, but is replete in tissue-repairing and energy-giving constituents.

These are supported by the phospho-nucleins and other organic phosphorus compounds, enzymes and vitamin which ensure assimilation and repair, restoring to the organism tone, nerve fitness and vigour.

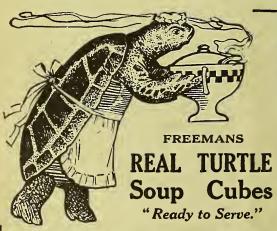
SANAPHOS has an attractive milk-like flavour and is soluble. Patients take it readily, and it has given most valuable results in all debilitated conditions, restlessness, insomnia, and helps in a very striking way in bringing those weakened by illness back to strength.

# Sanaphos is and always has been wholly British.

SANAPHOS is procurable at fixed prices from all Chemists and Stores throughout the world.

For all information address:

BRITISH MILK PRODUCTS CO., LTD.
59 MARK LANE, LONDON, E.C. 3.



Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.

To retail in 1/- Cartons containing 4 Cubes,

THE WATFORD MFG. CO., LTD., Makers of

Freemans Table
Dainties Boisseliers
(Boy-sel-e-a)Chocolates
and Vi-Cocoa,
Victoria Wks. Watford

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# PURE DRINKING WATER.



The Pasteur Chamberland Filter.

**OFFICIAL GOVERNMENT 8TATEMENT:** 

Wherever the PASTEUR FILTER has been applied, TYPHOID FEVER has

disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

The British Pasteur Chamberland Filter Co.

5 WHITE STREET, FINSBURY,

EONDON, E.C.

# HOOKER'S MALT

SELLS ENTIRELY ON MERIT.

There is no Higher Quality or Better Value

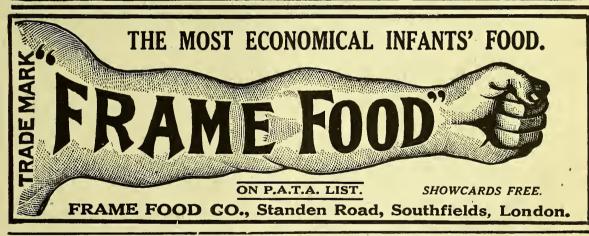
### **BRITISH MADE & BRITISH**

DEMAND RAPIDLY INCREASING.

LARGE PROFITS TO SELLERS.

PRICES AND TERMS FROM

THEW, HOOKER & CILBEY, LTD., BUCKINGHAM.



# CASE

ALIMENTARY AND INDUSTRIAL

Dairy Produce Importers. NIEUWHOF. SURIE & CO., LTD.

Office: 5 LLOYD'S AVENUE, LONDON, E.C.

Works & Warehouses: 9 ALDCATE AVENUE, LONDON, E.

A. MILLAR & CO., LTD., D

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.



### THESE CELEBRATE PREPARATIONS are ON SALE

At the London Branch, 5 Belfast Chambers, 7 Beak St., W.

SCIENTIFICALLY PURE.

"THE QUICKEST IN ACTION," "THE SAFEST IN USE."

Ask for our Special Offer to the Trade.

### **LOFTHOUSE & SALTMER, Ltd.**

Wholesale & Export Drug Merchants, - Manufacturing Chemists -

### HULL

NVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A. Protected Dozen Net.

\*LOSALL'S SALT (well advertised), tine /20. 5/6

10/bottles in 1/6 12/-

\*Lesall's Sait sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

### LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap. 13/6 per dozen especially suitable for use in Eczema

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lotthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

# POTATO SPRAYING

### NATRO-CUPRYL.

An Improved "Burgundy Mixture" in powder form. Permanent, Soluble and Instantly Prepared.

#### PRECIPITATED COPPER for DRY SPRAYING.

Full information given on all points relating to Potato Spraying. & CO., EVESHAM.

Horticultural Chemists and Spraying Contractors. TELEPHONE: 138 EVESHAM.

### THE BRYTSTELE OUTFIT

### For Safety Razors

Safety Razors kept in a Brytstele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, antiseptic, and free from rust.

#### ATTRACTIVE OUTFITS AS ILLUSTRATED.

Retail 2s. 6d. each ... Trade 22/- doz. Refill Bottles (4 oz.)

ls. each .... Refill Bottles (10 oz.)

Refill Bottles (10 oz.) , 17/- , Carriage paid, England, 20/- & upwards. , , , Scotland & Ireland, 40/- ,

Good Showcards, etc. THE BRYTSTELE Mig. Co., 106 High Street, Camden Town, N.W.



### "Railox" Nit and Vermin Destroyer.

Clean and invisible in use; no grease. Price 2d. & 6d. per packet.

Extracts from some of the many letters we have received:
CORNWALL.—" Railox is the best I have used."
SHIPSEA, HULL.—" Delighted with the result."

SHOWS A GOOD PROFIT.

"Railox" Soldier's Wallet (speciality). The Best, Cleanest & Handiest Price 6d. each.

PRICE LIST. 6d. lines 4/- doz.

Discount.
£1 ... 2½%
£3-5 ... 5 %
£7 ... 7½% 13 to doz. for cash with 6 ,, 7/-12 ,, 13/-All goods carr. paid.

MILNER'S CHEMICAL CO., LIVERPOOL.

### DECOLTENE The liquid hair remover





line

order.

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. In-

enjoys good sales. A grease-less Cream, that takes the odour out of perspiration. Daintily packed in opal jars. valuable during the décolleté vogue. Daintily packed.

Ask your wholesaler. Both articles largely advertised. SATISFACTION GUARANTEED OR MONEY BACK.

TRADE TERMS.

DECOLTENE. Advertised 3/9 DECOLIENE. Advertised 3/9 and min. Retail price
Trade 30/- per doz.
DINKIE. Advertised and min. Retail price
Trade 20/- per doz.

5% cash with order. Carriage paid on fi lots. Particulars on request.

attractive

ROBARTES, LTD., 128 JERMYN STREET, LONDON, S.W.1 Telephone - Gerrard 3672.

### PICARD FRERES' SPECIALITIES.

EAU DE COLOGNE.

PERFUMES FOR THE POCKET.

COLOGNE RUSSE.





Illustration exact size of bottle.

### PERFUMES FOR THE POCKET.

All Popular Odours, 7/9 per doz.

### COLOGNE RUSSE.

A distinctive Cologne of exquisite odour,

4½-oz. 30/- per doz.

9,, 60/- ,,



Qualité Superfine. 2-oz. 14/- per doz. 4 ,, 25/6 ,,

### PICARD FRERES' LATEST SUCCESS.



The Shaving Stick with the creamy lather. Enclosed in a handsome nickeled case. 9/3 per doz.; 108/- per gross.

### SAVON POUR LE BAIN.

Small size, about  $3\frac{1}{2}$ -oz. tablets, 2/10 per doz. Large size, about 7-oz. tablets, 5/8 ,,

Special Quotations for Quantities.



SUBJECT TO 23 PER CENT. DISCOUNT.

DEPÔT:

### R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines),
Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

LONDON.

Finest qualities, Red, Yellow, and White. Guaranteed B.P.

GUMS. WAXES. DEXTRINE. CRUDE DRUGS.

W. M. KIDSTON & CO., 43,45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

# ADEPS LANÆ,

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

PHARMACEUTICAL LANOLINE

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

# B. BROWN & BRO. Importers and Exporters DRUGS, CHEMICALS & VEGETABLE OILS 280 BROADWAY, NEW YORK, U.S.A.

(RECTIFIED).

Eucalyptol Content ... ... 70/8
Optical Rotation ... ... ... ... ... ... 919 to
Absolutely Free from Phellandrene. ... 70/80 % ... 0 to 1 '919 to '928 Quotations by cable. Wholesale Trade only.

**BURNSIDE & COMPANY** Eucalyptus Oil Distillers,

VICTORIA,

AUSTRALIA.

New Postal Address— Cab 439 Flinders Lane, Melbourne. Cables—"Burnside Company, rne. Melboùrne."

Packers of Own Name and other Specialities Baking Powders Liver Salt Egg Powders Stain Varnishes Lacquers Custard Powders Furniture Cream Flavouring Essences Fly Papers

Original Health Salt Fly Traps - "Web" Premier Health Salt 3½ & 6½ Lin. Liq. and Honey Balsam "Spa" Health Salt Exhibition Health Salt 71 Liq. Aniseed & Honey

INOUIRIES SOLICITED.

# The Advertised

# **BRITISH TOOTH PASTE**

(Advts. now appearing in Daily Mail, Star, Evening News, Home Chat, etc.) showing over 100°/. Profit to the Chemist is

Support a BRITISH Paste.

In 6d. and 1/- tubes.



SHOWING DISPLAY BOX.

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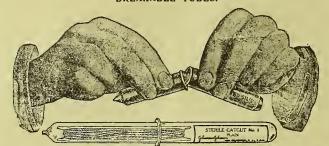
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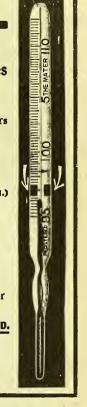
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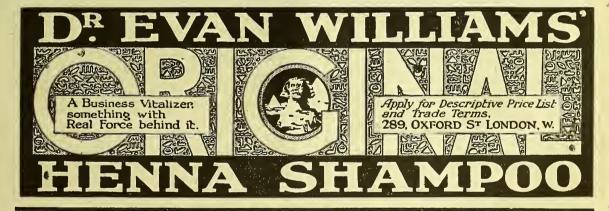
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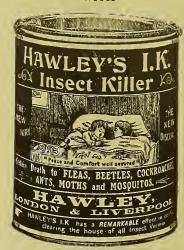
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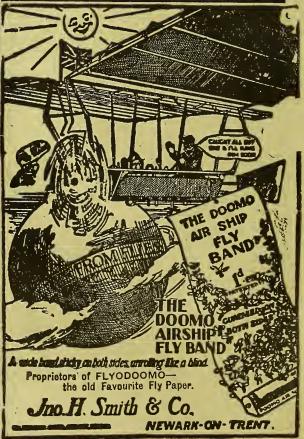


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is an ever-ready digestive fluid, containing all the soluble constituents of the gastric juice, preserved in an agreeable aromatic menstruum. It represents both the peptic and milk-curdling ferments obtained directly from the fresh peptic glands.

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, July 15.

Pharmacists' Volunteer Corps, Imperial College Union, Prince Consort Road, South Kensington, London, W., at 10 A.M. Parade.
July 17 (8.45 r.M.), Officers and N.C.O.s class; July 18 and 19 (3 г.м.), drills.

Wednesday, July 18.

Society of Chemical Industry, The University, Birmingham, at 11 A.M. Annual general meeting, followed (at 1 r.M.) by luncheon, (at 3 r.M.) Congress, and (at 7.30 r.M.) by reception at the Grand Hotel. The Congress will be continued on July 19 and 20. July 19 and 20.

Ucal Lodge of Pharmacy, Duke's Room, Holborn Restaurant, London, W.C., at 2.30 r.m. Quarterly meeting and considera-tion of Federation scheme.

Incorporated Society of Pharmacy and Drug-store Proprietors, Mitre Hotel, Manchester, at 2.30 p.m. Annual general meeting. Mr. J. O'Grady, M.P., will address the meeting.

HASTINGS BOWLING TOURNAMENT.—A rink of pharmacists has been entered for this Tournament, which opens on August 27. Mr. G. Duncan Bowie, chemist, 155 Farringdon Road, London, E.C., will be glad to hear from chemist-bowlers who can be in Hastings during the week referred to.

. THE DEFENCE OF THE REALM ACT—the unadorable "Dora" of which we have heard.—Parliamentary Debatcs, June 28.

### European War News.

Import and Export Notices.

ITALY.—According to Swiss newspapers the exportation of liquorice-juice from Switzerland to Italy is again allowed. NETHERLANDS.-The exportation of acetic acid and vinegar has been prohibited as from June 22.

UNITED KINGDOM.—The importation into the United Kingdom (except under lieence) is prohibited of carbons for are lamps, carbons for searchlights, and electric dry-cells and earbons therefor.

#### Personalia

PRIVATE WILLIAM LEE, South Wales Borderers Regiment, who has been wounded in France, was, prior to joining the Colours, with the Tenby Drug Stores.

SECOND-LIEUTENANT ARTHUR FRANKLAND HOLLINGWORTH, R.F.A., son of Mr. F. W. Hollingworth, Ph.C., Leeds, who recently received the Croix de Guerre (First Class), has now been awarded the Military Cross.

SECOND-LIEUTENANT M. L. DANIELS, Royal Berkshire Regiment, formerly of the "Rexa'l" staff, was among a number of wounded officers who were presented to H.R.H. Princess Mary at Roehampton House sports on July 7.

PRIVATE ROY SUTER has been awarded the Military Medal for conspicuous bravery while serving at the Front with the South Lancashire Regiment. Prior to enlistment fifteen months ago he was an apprentice serving with Boots, Ltd., at their Darwen branch.

LIEUTENANT ERIC WATTS, a past student of pharmacy at the Manchester University, gained the Military Cross some time ago, and both he and Sceond-Lieutenant Arthur Burgess have been home wounded. The last-named is the son of Mr. A. H. Burgess, dispensing chemist, Altrincham.

CAPTAIN W. B. WAMSLEY, R.A.M.C., who recently received the Military Cross, was a student of pharmacy at Manchester University before he graduated in medicine. Dr. Wamsley was recently in hospital in the Manchester area, having been wounded in France. At the outbreak of war having been medical miscourage would be Chief war he was engaged in medical missionary work in China.

Captain George Hicks, who has been through both Gallipoli campaigns, and has been for about a year now at Salonica, has been awarded the Military Cross for conspicuous bravery, and has also been promoted to major. Previous to that he was mentioned in despatches. He is the proprietor of Geo. Hicks & Son, chemists, Rothesay.

the proprietor of Geo. Hicks & Son, chemists, Rothesay.

LIEUTEMANT GUIDO JUNG, of Fratelli Jung, essential-oil exporters, Palmero, is attached to the Headquarters Staff of one of the Italian Army corps at present fighting on the Carso. He was recently decorated by General Milne with the Military Cross, at which time he was attached to the staff of General Petitti, then Commander-in-Chief of the Italian force at Salonica. Lieutenant Jung was always an enthusiastic member of the local branch of the Italian Nationalist party, and upon the outbreak of the European war immediately took an active part in the propaganda in favour ef Italy entering the war on the side of the Entente. As soon as he was convinced that his country would actually enter the eombat he voluntarily joined the Army, and even to-day his "class" has not yet been called up.

Miseellaneous.

#### Miscellaneous.

ENEMY PROPERTY of Carl Zeiss, of Jena, a freehold house and fourteen acres at Mill Hill, London, will come under the hammer on July 24.

THE FOOD CONTROLLER finds Grosvenor House unsuitable for the work of the Ministry of Food, and it is proposed to move to premises nearer Whitehall.

Picric Acid.—An Order in Council, dated June 28, repeals as from that date the exemption contained in paragraph (b) of Article 2 of the Order in Council of March 27, 1905, whereby picrie acid, when the quantity does not exceed 2,000 lb. in any one ship, boat, carriage, building, or place, is under certain conditions exempted from being deemed to be an explosive within the meaning of the Explosives Aet,

Petrol-supply.—As the result of negotiations with the Petrol Control Department, the Commercial Motor Users' Association has arranged that where the Association after investigation, is satisfied that a member engaged on war-work or on work of national importance is suffering genuine hardship through insufficient supplies of petrol, such cases will, on the recommendation of the Association, receive further consideration by the Petrol Control Department.

### English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Export of Abselute Alcohol.

The Commissioners of Customs and Excise, in pursuance of Sectiou 3 of the Revenue Act, 1906, have made regulations [the Tinctures and Spirits of Wine (Amendment) Regulations, 1917] which state that, subject to the provisions of Regulation 8 of the Regulations dated August 11, 1906, made by the Commissioners of Inland Revenue as to the exportation on drawback of tinctures and spirits of wine and the shipment of tinctures as stores, no consignment of absolute alcohol to be exported in pursuance of the provisions of the said section shall be of less quantity than 2 bulk gals. Absolute alcohol may be removed from the premises of a licensed rectifier or compounder either (a) in bottles or metal canisters of uniform size packed in a case, but so that the case contains in the aggregate not less than 2 bulk gals; or (b) in scaled bottles or metal canisters each containing not less than 1 gal. The expression "absolute alcohol" means spirits of wine of a strength of 74° over proof or upwards.

Drug Prices.

The Birmingham Pharmaceutical Association's list of minimum prices of drugs and proprietary articles for July contains altered prices for acetic acid, boric acid, tartaric acid, alum, beeswax, cream of tartar, liquorice, camphorated oil, olive oil, permanganate of potash, sublimed sulphur, and soda-mint tablets. The proprietary articles altered in price are Allcock's plasters, Andrew's liver-salt, antexema, Atkinson's perfumes, A. & H. Byno preparations and Bynin, Condy's fluid, Cow and Gate milk-foods, Grossmith's perfumes, Kepler malt-extract, Luce's eau do Cologne, Milo fcod, Mellin's food, Phillips' milk of magnesia, Price's night-lights, Sanaphos, seccotine, and Zenobia perfumes.

Transport of Coal.

The Coal Controller (Mr. G. Calthrop) has inaugurated a scheme, to come into operation on September 10, whereby it is estimated that no fewer than 700 million ton-miles annually will be saved in the transport of coal by railway. Great Britain has been divided into twenty areas, and the proposed distribution is based on four main issues: (1) That consumption of coal should take place as near the producing point as possible; (2) that, in view of the superior facilities afforded by the main trunk lines, the movement of traffic should follow these routes wherever possible; (3) that the movement of coal should be in well-defined directions—viz., north to south, north to south-east, north to south-west, east to west; (4) that an area producing less coal than suffices for its own needs should not send any portion of its output to other areas. That an area producing more coal than it requires for consumption within the area itself should only distribute the balance to adjacent or convenient areas. In the various areas District Coal and Coke Supplies Committees are acting as the Controller's representatives in all matters relating to coal. These Committees have been empowered by the Controller to conduct the necessary arrangements for putting the new scheme into force. The movement of ceal within the areas themselves—i.e., coal produced and consumed in the same area—remains undisturbed, and contracts will not require to be cancelled. In the case of coal affected by the scheme, however, existing contracts will be cancelled at 6 p.m. on Saturday, September 8, and new contracts, to be arranged between now and that date, will come into operation on Monday, September 10. All concerned are strongly advised to secure map diagram and pamphlet, as these documents will be found to be of material assistance. In regard to prices, the matter is being dealt with by the Controller's Department rather than the local Committees. The directions of the Coal Controller are given in detail in an advertisement in this issue.

Excess-profits Duty.

A White Paper was issued on July 7 containing the promised statement of the Chancellor of the Exchequer respecting the proposals as to the valuation of stocks and allowances for wear and tear and obsolescence of assets. It deals with valuation of stock, the treatment of "base stocks," replacement of minimum quantities in certain circumstances, and hidden stocks generally. In their findings the Committee say: "We consider that there is only one sound general principlo of valuing stocks for the purposes of these Acts, and that is that all stocks of every sort er

kind should be valued at the end of each accounting period on the basis of cost price or market value, whichever is the lower. This principle rests upon the theory that profits can only be realised by the sale of commodities, and that no profits can arise by merc increase of value unaccompanied by a sale. To follow this out consistently, stocks, therefore, should be carried at their cost price until they are sold and the profit is ascertained. Where, however, the market price is lower than the cost a precautionary reserve is permissible for the difference between the cost and the market value. We are of opinion that this principle should be adopted throughout in determining profits, whether for the purposes of the munitions levy or excess profits duty." A memorandum proposed to be issued by the Board of Inland Revenue is also appended. This deals with the excess-profits duty. It sets forth that where a taxpayer is dissatisfied with the allowances granted by the Board of Inland Revenue, in respect of special depreciation or obsolescence of assets, he may require his case to be referred to the Board of Referees appointed under the Finance (No. 2) Act, 1915.

#### Birmingham.

The measles epidemic is declining. There were 238 cases last week, this being the lowest recorded recently.

The Birmingham workpeople have made a record on this year's Hospital Saturday Fund, the collections being up to now several thousands of pounds in excess of previous record.

Messrs. A. H. Sturge and E. P. Sturge have resolved to devote the sum of 52*l*. a year for ten years for charitable purposes as a thankoffering for the health of their mother, who is eighty-five.

"Shenstone Court," an attractive Georgian mansion with 104 acros of park and farm lands, in the occupation of and owned by Sir Richard Cooper, Bart., M.P. (of sheep-dip fame), is to be sold in July.

A propos of the note in the C. & D. on the growing of lineed in Lincolnshire, it may be noted that many years ago linseed was grown at Shirley as an experiment, and yielded a net profit of 20l. per acre.

The Birmingham confectionery-trade has this week formed an association whose propaganda includes attention to window-displays, unfair trading after eight o'clock, the limited supply of sugar, and the position of outside traders engaged in the confectioners' business, such as cinemas, theatres, and drapers.

A remarkable gathering of Midland old-time cyclists teck place on July 2 at Stonebridge. Mr. A. F. Bird, M.P., was to have ridden at the head of the Birmingham contingent from Yardley, but was only able to meet the cavalcade at Bickenhill. He, however, presided at the tea, when 23l. 7s. 6d. was collected for the Cyclists' Prisoners of War Fund.

#### Liverpool.

Lord Leverhulme and Sir Edward Evans are announced to speak at a commercial gathering to be held at the Exchange Hotel under the auspices of the Federated Trades on July 24. The entrance to the hall is next door to the Exchange Pharmacy.

The head offices of Ayrton, Saunders & Co., Ltd., Hanover Street, have been remodelled in a way promoting ease of working and the inspection of the showroom. In the latter are to be seen "model windows" with goods displayed as suggested on the passing of the glass shelf.

Two Chinese were charged at Birkenhead on July 11 with being found in pessession of opium. One, who occupied premises which had been raided, was fined 50\(ldot\), with the alternative of eighty-one days' imprisonment, and the other, found smoking an opium-pipe, was fined 5\(ldot\), with the alternative of twenty-six days.

Bootle proposes an interesting innovation in the shape of a general shops' holiday by means of a long week-end closing at the August Bank heliday. It is believed that the movement will spread to the Liverpool suburbs, and perhaps to other cities. The object chiefly aimed at is to give the female assistants the only practicable holiday. Whether pharmacists will share in the boon does not yet appear.

"Baby Weck" in Liverpoel was conducted with great vigour under the leadership of the Lord Mayor and Lady Mayoress (Mr. and Mrs. Max Muspratt). One of the features was a couple of lantern-lectures to the masses, by Miss M. E. Griffiths (Sub-Librarian of the Luton, Bedfordshire, Carnegie Library), on "Flies." Following these lectures has come an increased demand for insecticides and for information of the medical officer of health's methods of spraying manure-beds and other breeding-grounds.

Sheffleld.

Major W. B. Robinson (Robinson & Sons, Ltd., Chesterheld) has presented a Union Jack for use at the Town Hall.

Mr. C. H. Hallatt, Attercliffe Common, is back at business again after his absence of six weeks, due to a very

ness again after his absence of six weeks, due to a very severe attack of pneumonia.

Mr. G. E. Pashley, chemist and druggist, of Coal Aston, Sheffield, has taken over the business carried on for many years by Mr. C. H. Twelves, Dronfield.

Under the new Regulation, B 3 and C 3 men who are acting as chemists' assistants, and not recommended by the Livic Committee for committee are heing returned to their Joint Committee for exemption, are being returned to their civil employment.

The Council of Sheffield University has elected the Marquis of Crewe, K.G., who has accepted office, as Chancellor of the University in place of the late Duke of Norfolk. Lord Crewe is not unknown in pharmaceutical legislative

The military are becoming very keen on the examination of the Form D.R. 17. Pharmacists are asked to supply full particulars as to the date, etc., of the persons holding medically rejected certificates and certificates of exemption. An idea prevails that this form only needs presenting when an alteration is made, but the military authorities hold that one must be made each month.

THE NATIONAL POOR-LAW OFFICERS' ASSOCIATION has decided to apply for tenure of office for all Poor-law dispensers (see C. & D., July 7, p. 35).

A LIGHTING OFFENCE.—At the Radcliffe Police Court last

week, Mr. Thomas A. Smith, chemist and druggist, was fined 10s. for an alleged infringement of the Lighting Re-

Therefore the imperior of the Inglishing Restrictions Order.

CAMERA THEFT.—A porter named Dench was at Lambeth Police Court on July 5 fined 201., and 51. 5s. costs, or three months' imprisonment, for stealing four cameras and other goods valued at 101. 7s. 10d., the property of his employers, Boots, Ltd.

Boots, Ltd.

WINDOW-SMASHING.—Damage to the extent of 19l. 10s. was done by a man named Patrick Murray, who broke the shop-window of Mr. Gibson Dixon, chemist and druggist, Old Market, Halifax, with a large stone. Murray got one month's imprisonment.

DISPENSERS.—Miss I. Robertson has been appointed dispenser at the St. James's Infirmary of the Wandsworth Union.—At the meeting of the Managers of the Poplar and Stepney Sick Asylum, the Chairman mentioned with regret the death of Mr. H. Douglas George, who had been dispenser at the asylum for fifteen years. A letter was read from Dr. Spurrell, the medical superintendent, testifying to Mr. George's skill as a dispenser and as an x-ray operator. DOCTOR SENT TO PRISON.—At Clerkenwell Sessions, London.

DOCTOR SENT TO PRISON.—At Clerkenwell Sessions, London, on July 5, Dr. J. H. Bell, Beaufort Mansions, Chelsea, was charged, under the Defence of the Realm Act, with attemptcharged, under the Defence of the Realm Act, with attempting to produce synovitis in a soldier. Another man was charged with aiding and abetting in the offence. Both prisoners were found guilty. Dr. Bell was sentenced to six months' imprisonment with hard labour for each of two charges, the sentences to run concurrently. The other prisoner was sentenced to six months' imprisonment with hard labour. Both gave notice of appeal.

with hard labour. Both gave notice of appeal.

BUSINESS EDUCATION.—At a meeting of the Education Committee of the London County Council on July 11, the appointment of Advisory Committees was recommended, who will act as advisers to the Council on schemes of education relating to business. The Advisory Committee which will undertake to examine schemes connected with chemical industry is composed of Mr. A. Chaston Chapman, consulting chemist; Mr. G. E. Pearson (Burroughs Wellcome & Co.); Mr. C. F. Cross (Cross & Bevan); Mr. J. W. Harbord, hon. adviser in metallurgy to the Ministry of Munitions; Sir Boverton Redwood, consulting chemist and engineer; and Mr. Robert L. Mond.

Poisonings.—Since our last report the following cases of

POISONINGS.—Since our last report the following cases of poisoning have occurred: Mrs. Howard, at Leicester, died from an overdose of sulphonal, which she was in the habit of taking. The purchases were made at Boots, Ltd., and Mr. E. A. Fry, chemist and druggist, gave evidence that the legal formalities connected with the sale were carried out.—At Dublin, Jane McKay took salts of lemon by mistake, with fatal results.—At Torquay, Cecil J. Varicas, who died a'ter removal to hospital, is thought to have taken morphine-tablets to excess.—At Ipswich a girl named Taylor was accidentally poisoned by lysol.—A baby named Henderson, at Brynmayr, died from poison which he drank from a bottle discovered on a dressing-table.

THE TERRIBLE SACRIFICE OF HUMAN LIFE which we are now witnessing is a consequence of the fact that the teaching of moral responsibility has not kept pace with the progress of science.-Nature.

#### Irish News.

Brevities.

The wholesale houses in Belfast were to close on July 12 and 13 for the annual holiday.

Alderman William McCarthy, Ph.C., Clontarf, has been appointed a Justice of the Peace for the visitation of Dublin prisons.

A fire occurred on the premises of S. Connor & Son, Newry, on July 9, but it was overcome before much damage

had been done.

Dr. James S. Asho, Ph.C., who was one of four Parlia-

mentary candidates for South Dublin (C. & D., July 7, p. 36), retired before the day fixed for the election.

Mr. J. Carney, R.D., Drogheda, has acquired the Medical Hall in Ardee, occupied by the successors of the late Dr. McLor, and will, "carry on" under his own name in

future.

Captain R. T. Herron, R.A.M.C., has been promoted to the rank and pay of major and placed in charge of the Command Depôt at Randalstown. Major Herron is a pharmaceutical chemist.

The dispute between the Limerick chemists and their employers has been scttled, states the "Freeman's Journal." The employers have agreed to grant a war-bonus, and to reinstate the assistants whose notices had expired.

#### Scottish News.

#### Aberdeen.

Strong feeling has been aroused among the employes of the drug-department of the Northern Co-operative Co., Aberdeen, by the edict of the directors ordering them to join the Shop Assistants' Union within the space of one month "or else find other employment." The number of chemists employed by the company is not large, but the principle at stake is an important one, and the high-handed from several of the assistants. The drug-department of the Co-operative Co. was opened some ten or twelve years ago, and at present there are five branch shops in various parts of the city, with central premises at Berryden. The staff of a branch shop consists of a manager and two or staff of a branch shop consists of a manager and two or sometimes three assistants and apprentices. The total staff has been somewhat reduced since the outbreak of the war, but the number of chemists affected by the directors' fiat is about twenty, inclusive of managers. A spirited protest has been made, as it is felt that, even if membership of a trade union were to be made a condition of employment, the chemists should be entitled to choose their organisation themselves, and that membership of one of the various chemists' and druggists' Associations should be sufficient to satisfy all the reasonable demands of the trade-union ideas of the Northern Co-operative Co.

#### Dundee.

The Dundee and East of Scotland Pharmacists' Association have, with the July price-list, enclosed a copy of the proposed dispensing tariff. This constitutes a distinct step forward for Dundee, where prescription-rates have been for years on too low a scale. The following method is given of determining prices:

Take the cost price of ingredients (minimum for each ingredient  $\frac{1}{2}d$ .) and add 50 per cent. (to cover establishment charges). Add a dispensing fee apportioned thus: Ordinary mixtures and lotions, 6d.; emulsions, 9d.; ointments, 1 oz. 4d., 2 oz. 6d., 4 oz. 10d.; pills,  $\frac{1}{2}$  doz. 4d., 1 doz. 6d., 2 doz. 9d.; powders and cachets,  $\frac{1}{2}$  doz. 6d., 1 doz. 9d., 2 doz. 1s. Bottles to be charged extra.

Then follows a scale of minimum charges which are otherwise to be charged. Exceptional cases are to be indicated by "ex." on the prescription, followed by the price charged in the private mark—Melboracis.

Glasgow.

The Glasgow Pharmacy Athletic Club arranged a highly enjoyable bowling-match for July 4 at the Shawlands Green. Four full rinks took part in the match, with the following results:

Skips		Scores (	Skips			Scores	
I. Hislop		6	Jas. Moir	•••	•••		
G. McDonald	•••	37	A. G. Sutherland	•••	•••	18	
C. B. Lee	•••	25	H. G. Gray	•••	•••	27	

Prizes were presented to the "highest up" rink, the winners being Messrs. Geo. McDonald (skip), J. T. Simpson, John Murchie, and A. McEwan. The prizes were presented by Mr. Geo. Mackay, President of the Club, who announced that two further games had been arranged—one on Queen's Park Green and another on St. Vincent Green.

#### Legal Reports.

Sale of Food and Drugs Acts.—At Marlborough Street Police Court, London, W., on July 7, Cadbury, Pratt & Co., New Bond Street, W., were fined 10t., with 10s. 6d. costs, for selling clotted cream containing the equivalent of 3½ gr. of crystallised boric acid per lb.—At Kensington on July 3, Edward Humphries was fined 20s., and costs, for solling vinegar below the strength of 4 per cent. of acetic acid. Sidney Dudbury was fined 20s. for a like offence. Both defendants pleaded that they sold the vinegar as received from the wholesale firms as received from the wholesale firms.

Cocaine Regulations.—At Shefficld Police Court on July 4, George Sheriff, dental mechanic, Stocksbridge, was fined 10s. for having cocaine in his possession. Defendant said he had obtained the cocaine from a Barnsley "chemist."—At Barnsley on July 5, Nellie Charlton, an assistant employed by the Barnsley Hygienic Institute, was charged with selling cocaine to the last-named defendant. The Bench allowed the case to be withdrawn on payment of costs.

wages in Lieu of Notice.—In the City of London Court on July 5, F. T. Price, packer, sued H. C. Quelch & Co., 4 and 5 Ludgate Square, for 3l. wages, and wages in lieu of notice. Plaintiff, a discharged soldier, was employed as a packer at 30s. a week. He had to go to Chelsea about his pension as a discharged soldier, and that took up more time than he expected. When he came back he was dismissed by the defendants without wages. Defendants' manager said they knew that discharged soldiers require a little time to get back into business life, and every indulgence was extended to the plaintiff. He was engaged subject to his references being satisfactory, and they were anything but that. Judge Rentoul, K.C., said it was a difficult case, and gave judgment for the plaintiff it was a difficult case, and gave judgment for the plaintiff for 30s. and costs.

Alleged (Breach of Contract.—In the King's Bench Division on Wednesday, July 11, Mr. Justice Atkin resumed the hearing of the action brought by Associated Enterprises, Ltd., of Liverpool, a company controlled by Lever Bros., Ltd., against Brunner, Mond & Co., chemical-manufacturers, of Northwich, Cheshire, in respect of an alleged breach of an agreement of June 1913 (see C. & D., June 30, p. 38). For the defendants, Mr. Upjohn, K.C., now called Mr. Robert F. Jones, a director of the companies of Gossages and Crosfields, and the head of the export department, who spoke as to the extent of the business that had been carried on in China by these companies.—On July 12 there was a consultation among the parties, and it was stated by Sir John Simon that the action would be stayed, as the parties had come to a satisfactory arrangement.

Cocaine Prescriptions.—At Leeds on July 4, several summonses were heard against medical men and chemists for non-compliance with the Cocaine Order. The defendance of the cocaine Order, and the cocaine Order. dants were two medical men—Dr. H. M. Robertson, Roundhay, and Dr. J. J. Pickles—and three chemists—Mr. T. Issott Preston, Mr. F. C. Kilner, and Mr. W. Johnson. The doctors had omitted to sign cocainc prescriptions with their full names and addresses and endorse them with the words "Not to be repeated," while the chemists were charged with dispensing the prescriptions. The prescriptions related to eye-ointments and nasal sprays, and in each case they had been retained by the chemists and the requisite entries made in the cocaine-register. The Magistrato agreed to the suggestion that no convictions should be recorded, and ordered defendants to pay the costs.

corded, and ordered defendants to pay the costs.

Libel Case.—Mr. Justice Darling and a special jury had before them on July II an action brought by George Lueders & Co., essential-oil and chemical-product traders, of New York, to recover damages from Cooke, Tweedale & Lindsay, Ltd., Manchester, in respect of an al'eged libel contained in two letters written by the defendants to Mr. L. Naumann, 40 Charterhouse Square, London, E.C., in respect of the supply of a quantity of heliotropin to the plaintiffs. Lucders & Co. purchased some 25 cwt. of heliotropin from the defendants, and the latter applied to the tropin from the defendants, and the latter applied to the War Trades Department for permission to export the article. The Department refused to allow a certificate of exportation to be granted, and defendants declined to go on with the business. There was a heated correspondence between which the plaintiffs alleged that defendants wanted to get out of their arrangement. Plaintiffs finding wanted to get out of their arrangement. Plaintiffs finding that they would not deliver, put the matter in the hands of Mr. Naumann with a view to getting the heliotropin delivered to him on their behalf, and if unsuccessful he was to take such steps as he could. After the matter had been placed in Mr. Naumann's hands the correspondence on which the dispute arose took place between the defendants

and Mr. Naumann. Two letters were complained of, the first dated October 19, 1915, and the words taken exception to were:

It may be there is no prohibition against the exportation of heliotropin, but at the same time we hold the documents from the War Trade Department prohibiting our exporting to Messrs. Lueders the 25 cwt. In case your friends (the plaintiffs) wish to take steps to secure their rights there is one thing we shall certainly do, and that is to subpena the War Trade Department, and from certain documents in our possession we certainly think it would be far more desirable for your friends to drop the matter altographs. altogether.

On November 22, 1915, defendants wrote to Naumann:

On November 22, 1915, defendants wrote to Naumann:

May we reciprocate with a little friendly advice also? If the matter of heliotropin comes to law it would certainly lead to things which Messrs. Lueders do not anticipate at the present time. Had we proceeded in trying to export the stuff against the explicit instructions from our Government it would have been a serious breach of international law, which at the present crisis would be a dangerous violation of the rights of our country, and we are not prepared to violate the laws of this country either for Messrs. George Lueders or anybouy else. From the correspondence which is in our possession from the War Trade Department we very seriously think it would be advisable for Messrs. Lueders to drop the matter altogether, but if they wish to go to law that is no concern of ours. We know how to safeguard our own interests, and the consequences of a legal action, we promise you, will have more far-reaching effects than you anticipate now. We emphatically repeat once more that we have fulfilled our part of the engagement and that we are not liable to deliver to anyone else on the promise of Messrs. Lueders to secure any certificate.

Plaintiffs alleged that these letters seriously reflected on

Plaintiffs alleged that these letters seriously reflected on their conduct of business, as it was alleged they were carrying it on contrary to international law as regarded carrying it on contrary to international law as regarded neutrals, and were prepared to manufacture a false certificate to get their order through. Defendants admitted publication, and pleaded that the words were not libellous, were privileged, and there was no malice. Plaintiffs were represented by Mr. J. J. Parfitt, K.C., and Mr. C. A. Harney, and defendants by Mr. Leslie Scott, K.C., M.P., and Mr. Barrington Ward. Mr. E. J. Parry, F.I.C., analytical chemist, who has made a speciality of the study of essential oils, said heliotropin is used in the manufacture of perfumes and is not on the prohibited list. or essential ons, said heliotrophi is used in the limitation of perfumes, and is not on the prohibited list. At the close of the case for plaintiff, Mr. Leslie Scott submitted that the letters were privileged, and that there was no malice; and his Lordship ruled in favour of the point, and entered judgment for the defendants, with costs.

and entercd judgment for the defendants, with costs.

Milk - drying Patent. — In the Chancery Division, London, on July 5, the action J. R. Hatmaker v. Joseph Nathan & Co., which involves the question of alleged infringement of plaintiff's patents for drying milk, was resumed (C. & D., July 7, p. 37). Mr. Hatmaker, continuing his evidence, said that the Imperial Dry Milk Co., Ltd., was formed by Joseph Nathan & Co., Ltd., to take over the business of the Imperial Dry Milk Co. of Australasia, Ltd. He had examined the contents of a barrel of dried milk bought by a Birmingham baker from Joseph Nathan & Co., and was satisfied that the powder had been made by & Co., and was satisfied that the powder had been made by a process similar to his own. In cross-examination, plaintiff said that when he found the defendants had put "Glaxo" on the market he suspected that they had infringed the Just patent. He examined some of the defendants' product and had come to the conclusion that they had duct, and had come to the conclusion that they had in-fringed his rights, though he had no proof of it. Milk-drying processes were known before the Just patent, and there were other methods, including spraying and fringed his rights, though he had no proof of it. Milk-drying processes were known before the Just patent, and there were other methods, including spraying and vacuum, in use now. In 1904, with his authority, a chemist tried experiments in order to overcome the insolubility of solids, and discovered that it is necessary to neutralise the acids to a specific point—about 3 per cent. In 1906 he brought out the Hatmaker milk-drying process, but looking at the product of the Just patent and that of the Hatmaker it would, he admitted, be difficult to draw a distinction.—On July 6, in reply to Mr. Gordon, K.C., the plaintiff said that his specifications were filed with the object of placing on the market a standardised milk as a commercial product. Mr. Colefax, K.C., for the defendants, submitted that no evidence in proof of infringement of the plaintiff's patent had been called, and that "Glaxo" does not answer the plaintiff's specifications. So far as the work in the defendants' French factory was concerned, he could not do more than say that certain instructions as to the working of the process had been issued to the staff, but the defendants are not certain that those instructions have been carried out. Not only had the defendants not carried on the Just-Hatmaker method in France, but they have not placed on the market an article which answered the description.—On July 9, Professor Horatio Ballantyne, analytical chemist, for the defendants, said dried milk was well known before the plaintiff's process was patented. Milk reconstituted from

the plaintiff's product has not got the natural flavour of milk, and the fat tends to rise to the top like globules of milk, and the fat tends to rise to the top like globules of butter-fat. In cross-examination, witness said that in February last year, after this action was commenced, he first applied his scientific knowledge to "Glaxo." If the Hatmaker product was kept the fat becomes gancid; if it were to be used for the manufacture of chocolates or other sweets it might safely be kept twelve months. The same argument was true of "Glaxo." Probably 60 per cent. of milk was used for industrial purposes, and with respect to dried milk 70 per cent. was used in baking 20 per cent. of milk was used for industrial purposes, and with respect to dried milk 70 per cent. was used in baking, 20 per cent. in chocolate-making, and the rest domestically, but it would not yield cream or butter. Dr. Otto Hehner, consulting chemist, said that ever since 1875 he had given special attention to milk and milk-products. The first sample of milk-powder brought to his notice was in 1878, and he had five or six different kinds prior to the production of that known as the Just-Hatmaker brand. All fine milkpowders are liable to rancidity, but those obtained by the "spray" process are the least so. His experience convinced him that milk-powders cannot be reconstituted.—Dr. Otto Hehner, on July 10, continued his evidence, and said he did not know of any process by which could be obtained milk solids which would be as easily digestible as fresh milk. In answer to Mr. Justice Astbury, Dr. Hehner said a conservable article would not undergo any material change within a month, but milk is not conservable. Arthur Thomas Whiley, who was works-manager at the defendants' milk-drying factory at Breuil-en-Auge, Calvados, France, gave evidence as to the modus operandi there. Mr. Hunter Grev, for the defendants, said they relied on the argument that the plaintiff's patent was invalid by reason of the absence of subject-matter, that the specification was misleading in vital points, and that no infringement of the patent had been proved. On the resumption of the nearing on July 11, Mr. Gordon, K.C., replying on the evidence, said the sole point of the plaintiff's specification is rapid drying. All the changes in the milk, whether physical or chemical, are functions of the time during which the milk is exposed and the conditions which produced the change. A short time means a small change; a long time much change; sufficient time, complete change. In Otto Hehner, on July 10, continued his evidence, and said time much change; sufficient time, complete change, In this process time and change are indissolubly linked, and the patentee's object was to minimise the time consumed in the operation. From the chemical standpoint the dried product is indistinguishable from the natural article. After counsel had dealt with the criticisms on the plaintiff's specifications, Mr. Justice Astbury reserved judgment.

#### New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

PROTHESIA, LTD. (P.C.).—Capital 25,000l. Manufacturers of and dealers in artificial limbs, etc. R.O., Carlton House, Regent Street, London, S.W.

GROVE ENGINEERING AND UTILITIES, LTD. (P.C.).—Capital 1,500l. Power is taken to carry on business, among other things, as chemists, druggists, and drysalters. R.O., 196 Merton High Street, Wimbledon.

JAMES BYRNE, LTD. (P.C.).—Capital 2,000l. Objects: To

take over the business of chemists and druggists carried on at 27 and 28 Mitchell Street, Clonmel, co. Tipperary, as "Jas. Byrne." R.O., 27-28 Mitchell Street, Clonmel.

PARKE'S DRUG-STORES, LTD., announce the payment of the interim dividend on ordinary shares for the half-year ended March 31, 1917, at the rate of 6 per cent. per annum, less income-tax.

LEVER BROS., Ltd.—It is proposed to increase the capital from 30,000,000l. to 40,000,000l., and all the 10l. preforence shares of the company now existing will be split up into ten shares of 11. each.

ten shares of 1*l*. each.

The National Aniline and Chemical Co., of West Nyack, N.Y., has been incorporated, with a capital \$17,231,000, by I. Frank Stone, Dr. William Beckers, and W. McIlravy. The company, which was organised in April 1917, is the outgrowth of the amalgamation of some of the leading American producers of coal-tar products. The National Aniline and Chemical Co., Inc., will control the works of the Schoellkopf Aniline and Chemical Works, of Buffalo; the W. Beckers Aniline and Chemical Works, of Brooklyn; the Benzol Products Co., Marcus Hook, Pa.; and sections of the plant of the Semet-Solvay Co., Syracuse; the Barret Co., Frankfort, Pa.; and the General Chemical Co.

#### Bankruptcy Report.

Re Henry Chaloner, 303-5 Stratford Road, Birmingham, Chemist.—The public examination of this bankrupt took place on July 9 at Birmingham, before Mr. Registrar Whitlock. The statement of affairs showed liabilities amounting to 528% and assets 229%. Bankrupt, in answer to questions by the Official Receiver, stated that in Septemamounting to 520t. and assets 223t. Balkrupt, in answer to questions by the Official Receiver, stated that in September 1912 he bought the business from Mrs. Horton, widow of the former proprietor, for 400t.—100t. in respect of goodwill and 300t. for the stock-in-trade. He had previously managed the business for Mrs. Horton. At that time he had no capital, but borrowed 100t. He paid this over to Mrs. Horton, and agreed to pay the balance in monthly instalments of 4t. 6s. 8d. There was still 70t. due to Mrs. Horton. Bankrupt stated that a balance-sheet, which he prepared in March last year, showed that he was solvent, but he afterwards withdrew this answer and said he would not commit himself to that. The Official Receiver pointed out that an analysis of the books showed that in the first year of his trading bankrupt's loss was 48t., in the second year 100t., in the third year 78t., and in 1916 103t. Want of capital, ill-health, and inability to obtain supplies of many drugs owing to the war were given as the causes of the failure. In April last year bankrupt borrowed 100t. from a daughter, as he was being at the time pressed by creditors. The examination was adjourned until August 29.

#### Rhodamine and Acriflavine.

Two cases of interest to chemists were before the Comptroller (Mr. W. Temple Franks) and Sir Cornelius Dalton at the Patent Office Court on July 12. One was an application by Mr. Ellis on behalf of Levinstein, Ltd., for the avoidance of three trade-marks for "Rhodamine." The marks belong to the Badische Anilin und Fabrik, for whom Mr. Johnson appeared. Mr. Ellis put in various references to the use of the word rhodamine in the name of the article in Bernthsen's "Chemistry" and in Bloxam's "Chemistry," and the Countriller found rhodamine described as a dye and the Comptroller found rhedamine described as a dye in Webster's Dictionary. A declaration by Dr. Levinstein was put in, but the Comptroller pointed out that the applicants had not actually stated that they intended to manufacture of the comptroller points and public depend for cants had not actually stated that they intended to manufacture rhodamine and that there is a public demand for it. Therefore the proceedings were adjourned so that it could be considered whether it is necessary to call Dr. Levinstein at another hearing.

The second case was an application by Jeyes' Sanitary Compounds Co., Ltd. (for whom Mr. Ellis also appeared), for a licence to manufacture acriffavine. Mr. Carpmael

appeared for Cassella & Co., the owners of patent No. 24,662

of 1910.

Evidence was given by Mr. J. T. Smith, technical adviser and works-manager, that Jeyes' Sanitary Compounds Co., Ltd., had a capital of 63,000L, all shares (except 100L belonging to a Frenchman) being held by British subjects. The company had already made acriflavine, and the Ministry of Munitions had promised every facility for laying down plant to manufacture on a large scale. He hoped to have the plant in working order in a week. The company were willing to pay the licence-fee (1 per cent,) and to accept the conditions regarding the naming of the principal and also the intermediary products.

The Comptroller thought it in the interests of the public that acriflavine should be manufactured as soon as possible,

that acriflavine should be manufactured as soon as possible, and intimated that the necessary licenco would no doubt

be granted in due course.

be granted in due course.

An interesting point was then raised by Mr. Ellis (at the instigation of Dr. Reynolds, of Jeyes') with regard to the manufacture of the chemical equivalent of acriflavine, but by a process outside Cassella's patent. If at any future time such a chemical were produced, the company wanted to be certain they would not have to pay the 1-per-cent licence, nor would they be bound to stick to the name.

The Comptroller said if any chemical product was produced independent altogether of the Cassella patent they did not want it called acriflavine, as that would lead to confusion.

confusion.

contusion. It then transpired that Dr. Reynolds had produced the substance with the acriflavine chemical formula, but not by the process described by the patent.

Sir Cornelius Dalton said that if the substance produced was not acriflavine there was no need for a licence, but it was ultimately decided that for legal reasons it would be as well for the company to manufacture under the licence.

#### British Pharmaceutical Conference.

Fifty-fourth Annual and Third War Meeting, London, July 11, 1917.

THE CONFERENCE was held in the Lecture-theatre of the Pharmaceutical Society at 17 Bloomsbury Square, London, W.C., on July 11. The lecture-table was occupied by the President of the Pharmaceutical Society (Mr. Edmund White), the President of the Conference (Mr. C. A. Hill), the Hon. Treasurer (Mr. D. Lloyd Howard), and the Hon. Sccretary (Mr. R. R. Bennett). The attendance was not large, and the following

not large, and the following were among others

WHO WERE PRESENT:

Messrs. C. H. Baker (Cosham, Hants), D. Braithwaite (London), R. Bremridge (London), E. Theodore Brewis (London), W. Browne (London), F. A. Crossley-Holland (London), E. Theod.
W. Browne (London),
W. L. Currie (Glasgow), H.
Deane (Long Melford), W. P.
Thans (Liverpool), J. H.
Thans (Liverpool), J. Alan
Theodom (London),
T

Deane (Long Melford), W. P. Evans (Liverpool), J. H. Fisher (Dunfermline), Alan Francis (London), H. Wippell Gadd (Exeter), J. P. Gilmour (London), W. L. Howie (London), E. M. Holmes (London), A. R. Keith (London), E. M. Holmes (London), A. R. Keith (London), E. M. Kerr (London), G. J. Knight (London), T. Edward Lescher (London), J. Keall (London), G. A. Mallinson (London), A. R. Melhuish (London), G. A. Mallinson (London), A. R. Melhuish (London), W. A. H. Naylor (London), Lewis Ough (Leicester), H. Raithby Procter (London), R. R. Pratt (Dunfermline), F. Ransom (Hitchin), H. Skinner (London), A. Tocher (London), John C. Umney (London), W. P. Want (London), E. S. Waring (Nottingham), W. J. Uglow Woolcock (London), A. Wright (London), H. Wright (London). Delegates were present from various pharmacists' and chemists' Associations throughout the country, and their names are included in the foregoing list.

names are included in the foregoing list.

The President of the Pharmaceutical Society welcomed The President of the Pharmaceutical Society welcomed the delegates, regretting at the same time that the Conference had again this year to be held under belligerent conditions. The occasion was the last, he sincerely hoped, when the Conference should meet under such circumstances, and it was the fervent wish of all that when the time arrived for holding next year's Conference they would be in a position to accept one of the numerous pleasing invitations to meet at another place under propitious conditions.

The President of the Conference acknowledged the welcome extended to them, and tharked the Council of the

come extended to them, and thanked the Council of the Society for their kindly hospitality.

The Hon. Secretary (Mr. R. R. Bennett) then read letters

of apology for absence from various members of the Con-

THE PRESIDENTIAL ADDRESS.

In the selection of a subject Mr. Hill reviewed the diffi-culties with which he was faced, and the decision which was inevitable that it should be one dealing with war problems which affect the drug-trade. He did not propose to treat the question of national or Empire supply of drugs, as that has been covered in the unpublished report by a Committee of experts appointed by the Pharmaceutical Society, which was presented to the Government Committee on Commercial was presented to the Government Committee on Commercial and Industrial Policy. The medicine-supply and the maintenance of the service of drugs, chemicals, and pharmaceutical preparations which are in everyday demand was then dealt with, the term medicines being used in its widest sense, and without discussion as to whether any of them is essential. Referring to the general increase in values in medicines during the war, he said the condition in the drug-trade compares favourably with other trades, and we may congratulate ourselves on the absence of what is known as profiteering. Further, the President said:

gratulate ourselves on the absence of what is known as profiteering. Further, the President said:

"When we consider the causes contributing to the increase in prices, particularly the great increase in wages, the all-round increment in the values of pharmaceutical products is amply explained. As for the future, it seems certain that some values will go higher still during the war, and afterwards will not return to pre-war levels. In the case of drugs and chemicals of small monetary value, where fuel, freights, labour, and other prime costs are of much importance, the percentage advance has naturally been great. Home production of articles hitherto imported has been cheoked by difficulties of buildings, plant, labour, raw materials, etc., and by that monument of passive resistance the Priority Branch of the Ministry of Munitions, while the output has been absorbed or controlled by Government demands. On the whole, however, the service of everyday medicines went on much as usual, until it became seriously interfered with by the restrictions on sugar and glycerin. Comparing for a moment the drug-trade with other trades, and when we reflect how difficult it is in almost any industry to obtain the commonest articles to which one had become accustomed before the war, it would seem as if the supply of medicines had run on with remarkable smoothness."

Next Mr. Hill dealt with the difficulty of maintaining the

Next Mr. Hill dealt with the difficulty of maintaining the standards of purity in heavy chemicals and crude drugs. He said:

He said:

"The General Medical Council have every right to insist that the British Pharmacopœia should set the highest possible standard for medicines, but does it follow that such standards can reasonably be insisted upon during a war such as that which is now engaging the world? Certain prosecutions which one reads of as being taken under the Food and Drugs Acts serve to indicate that the authorities do not propose to relax their demands for strict compliance with the British Pharmacopœia, and, indeed, it would clearly be unsafe to advocate any general abrogation of our responsibilities in these matters. Nevertheless, I think it will have to be conceded that some little elasticity must be allowed here and there, and perhaps a few of the British Pharmacopœia requirements need revision."

Examples were given in the case of borax, boric acid, and magnesia, the figures for boric acid being given in the same form and as a continuation of the article "Pharmaceutical Chemical Standards" in THE CHEMIST AND DRUGGIST, July 4, 1914:

Lead-Parts per Million Arsenic-Parts per Million Percentage No. of Percentage Conforming Year Highest Limit Limit Lowest Highest Lowest Conforming to NotConforming to both Limits Simples Conforming 10 25 10 25 10 25 10 25 10 25 25 83 1 97 86 1 99 83 1 99 1 3 452 1914 30 2 7.5 0.2 5 99 84 96 494 5 97 1915 60 2 100 0.2 76 86 87 14 1916 421 40 3 110 0.2 5 1917 168 50 60 0.5 80 (6 mos.)

Acidum Boricum.

ference, including Sir Edward Evans, Mr. W. F. Wells, Dr. J. F. Tocher, Major E. Saville Peck, Mr. J. Tate (President of the Pharmaceutical Society of Ireland), and Cantain Horace Finnemore.

Mr. C. A. Hill then delivered

Much of the boric acid on the market contains an amount of arsenic which renders it quite unsafe for human consumption in any form. He referred also to the necessity of investigations of the questions of drug-deterioration and physical constants as a criterion of galenical preparations,

subjects which have been placed on the Research List. subjects which have been placed on the Research List. The effects of war on the drug-supply were illustrated by tables. The first showed the following percentages of the drugs named which conformed to the Pharmacopeia ash limits: Carbo ligni (25), catechu, lump (17), catechu, powder (60), guaiacum resin (73), myrrh (0), senna (50). The alcohol-solubility test for guaiacum resin showed that 33 per cent. of the samples did not conform to the B.P. requirement. Crude Drugs.

Opium (Turkey). Tragacanth (Turkey). Scammony. Galbanum Chamomiles (Belgian). Insect-flowers Guaza (Bombay). Juniper-berries (Austrian). Areca-nuts.
Aniseeds (Russian and Levantine).
Caraway-seeds.
Senna (Tinnevelly).
Aconite-root. Gentian-root (Central Europe). Liquorice-root. Sarsaparilla.
Valerian-root (Austrian gian, Japanese).
Galls (Aleppo).
Cantharides (Russian). (Austrian, Bel-

Unobtainable.

Restricted. Opium (Persian). Tragacanth (Persian). Gamboge. Asafetida. Myrrh.
Chamomiles (French).
Cascara sagrada.
Guaza (Zanzibar).
Juniper-berries (Sicilian).
Foenugreek-seeds.
Tamarinds.
Aniseeds (Alicante).
Coriander-seeds.
Senna (Alexandrian).
Buchu-leaves.
Gentian-root (Spanish).
Liquorice-juice.
Valerian-root (Indian).
Beeswax. Beeswax.

Dealing then with the assistance which the Government had given in obtaining supplies of ergot and santonine, Mr. Hill contrasted this with the way the drug-trade was left in the case of sugar, spirit, and glycerin to fight its own battles. The doctors as a rule are indifferent on these matters, and yet the Pharmacopœia standard has to be maintained by pharmacists. One important consideration in the demand for sugar, and one which has not received full value, is the fact that as a direct result of the war there has been an increased demand for medicines in military hospitals, these supplies being obtained through ordinary trade channels. The recent arrangement by which manufacturers of galenicals receive this year 50 per cent. of their sugar-supplies in 1915 leaves a serious shortage. Glycerin, alcohol, malt, starch, and copper-sulphate supplies were also dealt with, and then the important suggestion was made that a Public Policy Committee, representing the drug-trade as a whole, should be appointed by the Pharmaceutical Society, which, when occasion arises, would speak as a whole to any Government Department, to Parliament, or to the public. Dealing then with the assistance which the Government

ment, or to the public.

Mr. E. M. Holmes, as Senior Past-President of the Conference, thanked the President, on behalf of the Conference, for the excellent, able, and interesting address which he had delivered. They must all recognise, he said, that the President's range of knowledge and experience of pharmacy in all its scientific and practical branches was the President's range of knowledge and experience of pharmacy in all its scientific and practical branches was so great that very few indeed possessed them. The subject the President had chosen for his address was of the utmost importance to pharmacists, and in one respect the address would be a valuable addition to the proceedings of the Conference. He alluded particularly to its reference to the uses of glycerin and its great scarcity at this juncture. It was matter for the deepest regret to them all that the Government and Government Departments did not recognise pharmacy as it deserved during such a crisis in the country's history, but he had heard that from an official point of view Lord Rhondda was to devote some attention to pharmacy after he had attended to the various problems relating to food. (Laughter.) It was encouraging to find one who managed such a large business as Mr. Hill did being able to devote his spare time to gving pharmacists the benefit of his study and research.

Mr. J. C. Umney, seconding the vote of thanks, said that as a business competitor the President was as straight as a die, and as a scientific man he and the President had worked together for years with the greatest good feeling. The President's address embodied the excellent idea that in the future wholesale and retail should work more in unison for the benefit of pharmacy as a whole. The combination would mean better treatment from Government Departments and the public generally.

Mr. W. A. H. Navlor put the proposition to the meeting, and it was carried with acclamation.

The President's acknowledged the vote of thanks. The Hon. Secretary then read

THE EXECUTIVE COMMITTEE'S REPORT.

After referring to the reason why the Conference is again held in London, and stating that the activities of the Practice Section and Development Sub-Committee had been suspended, the report stated that the Research Sub-Com-

mittee has revised the Research List. Two scientific papers have been contributed to the present meeting, and to the authors of these papers cordial thanks are due. Despite adverse conditions, every effort has been made to maintain the standard of the "Year-book of Pharmacy," and in adverse conditions, every effort has been made to maintain the standard of the "Year-book of Pharmacy," and in this connection the Executivo placed on record their appreciation of the services of the editor, Mr. J. O. Braithwaite, and the compiler of the New Remedies Section, Mr. T. Stephenson. The death of the following members has to be reported: Mr. Charles Umney (London), a Foundation member, who was Vice-President from 1881 to 1883, Hon. Treasurer from 1884 to 1888, and President when the Conference visited Newcastle-on-Tyne in 1889 and Leeds in 1890; Mr. Francis Sutton (Norwich), a Foundation member, who was Secretary of the Local Committee when the Conference visited Norwich in 1868, and a member of the Executive Committee from 1868 to 1873; Mr. David Howard (London), a Foundation member; Mr. C. B. Allen (London), a former Vice-President; Captain and Adjutant W. G. Saunders, of the King's Liverpool Regiment, who has been killed in action; Lieutenant C. F. Carr, of the Sherwood Foresters, who has died of wounds received in action; Mr. E. R. Allen (London); Mr. G. D. Mackay (Edinburgh); Mr. R. Cuthbert (Huddersfield); Mr. W. Hayhoe (Bournemouth); Mr. S. Kay (Stockport); Mr. A. Middleton (Nottingham); Mr. R. F. Young (New Barnet); Mr. G. Watkins (Brisbane); Mr. Peter MacEwan (London); Mr. John Platts (Birmingham); Mr. J. H. Barnes, Imperial Agricultural Chemist to the Government of India; Mr. Reginald Ismay (Newcastle-on-Tyne), Local Treasurer when the Conference visited Newcastle in 1909.

Mr. H. Wippell Gadd, in proposing the adoption of the report, said it was satisfactory, in that it showed that the Executive were seeing to it that there was continuity in the British Pharmaceutical Conference despite many distractions. More than this, they were ensuring that

Executive were seeing to it that there was continuity in the British Pharmaceutical Conference despite many distractions. More than this, they were ensuring that attention was being paid to the revival, reconstruction, and continuance in the carrying-on of education in their particular sphere of science and research work.

Mr. T. H. W. Idris formally seconded the adoption of the report, which was agreed to unanimously.

THE TREASURER'S REPORT.

The Statement of receipts and expenditure for the year ending December 31, 1916, showed a balance in hand of 83l, 10s, 1d., against 127l. 10s. 6d. at the corresponding period in 1915. The receipts are made up of subscriptions, 309l. 18s. 3d. (305l. 12s. in 1915); sales of "Year-book," 10l, 16s. (18l. 18s. 3d. in 1915); advertisements, 73l. 4s. 2d. (71l. 17s. 2d. in 1915); sales of "Unofficial Formulary," 10s. 5d.; bank interest, 4l. 12s. 9d. (1l. 17s. 2d. in 1915). The expenses on the "Year-book" were 252l. 7s. 11d. (185l. 17s. 6d. in 1915); Editor's salary and honorarium, 100l.; other items of commission, postages, journals, etc., making up the balance. Particulars are also given of the Bell & Hills Fund and the Research Fund, the respective balances being 36l. 15s. and 18l. 12s.

The HON. TREASURER (Mr. D. Lloyd Howard) said if the subscriptions keep up to their former level this should be enough to tide them over, but it is very desirable that

subscriptions keep up to their former level this should be enough to tide them over, but it is very desirable that all members should interest themselves in retaining old members and introducing new ones, as he noticed that the receipts to date are only 240%. in subscriptions, against 255% at this time last year. He reminded the Conference that 7s. 6d. was the minimum subscription: it was quite open to members to contribute more. (Laughter.)

Mr. W. L. Curre, in moving the adoption of the report, said an increased subscription would help to improve

matters, and Mr. Howard's suggestion was worthy of serious consideration. He (Mr. Currie) thought it might perhaps be advisable to make the statutory subscription half a guinea. They were extremely indebted to Mr. Howard for devoting so much time and care to the finances. (Applause.)
Mr. W. Browne seconded, and the report was then

unanimously adopted.

The Hon. Secretary then read the nominations of

Officers for 1917-18.

President, Mr. C. A. Hill, Ph.C., F.I.C.
Vice-Presidents, Professor H. G. Greenish, J. Tate, Mr.
W. P. Evans, Mr. E. F. Harrison, Mr. Edmund White,
and Mr. G. Whitfield.
Hon. Treasurer, Mr. D. Lloyd Howard.
Hon. Secretaries, Messrs. H. Finnemore and R. R.

Bennett.

Hon. Local Secretary, Mr. H. Humphreys Jones Other Members. Messrs. T. O. Barlow, H. Deane, F. W. Gamble, C. H. Hampshire, A. R. Melhuish, H. Skinner, H. L. Smith, T. Stenhenson, and H. Wyatt. Auditors, Messrs, W. F. Gulliver and W. L. Howie.

Mr. Ransom, proposing the election of the officers referred to, said that having heard the expression of the appreciation of his address, the President could readily infer that tion of his address, the President could readily infer that his continuance in office for another year was wished for. He had taken a keen interest in the work of the Conference during the past year, and members were most fortunate in obtaining his assent to serve them for another year. The only difference in last year's list of officers was the addition to the Vice-Presidents of Mr. Tate, President of the Pharmaceutical Society of Ireland, whom they should have pleasure in welcoming. have pleasure in welcoming.

Mr. John Keall seconded the proposition, and the elec-

tion was then unanimously confirmed.

The PRESIDENT, in thanking the meeting for re-electing him and the officers for another period, said it was felt that the continuity of the Conference could best be secured in that way.

#### INVITATION TO LIVERPOOL.

Mr. W. P. Evans, on behalf of the chemists of Liverpool, again extended to the Conference the invitation to visit Liverpool as soon after the war as possible. He assured them of a hearty welcome.

Mr. H. Humphreys Jones supported the invitation "for the third time," as he said. He had hoped that they would be able to hold this year's meeting at Liverpool in view of the fact that the Lord Mayor, Mr. Muspratt, is identified with one of the greatest chemical industries of the country.

The PRESIDENT expressed acceptance on behalf of the Conference, saying that the persistence of their Liverpool friends left no doubt that they really wanted them, and they looked forward to being in Liverpool next year.

The PRESIDENT intimated that two papers had been com-

municated. These were taken as read, and are printed

below.

Thus the Conference of the third year of the war was concluded.

The members afterwards lunched together in concluded. The members afterwards luthe Gordon Salon, Holborn Restaurant.

#### Extractum Cinchonæ Liquidum, B.P.

By Oliver Chick.

Abstract of a Paper Contributed to the British Pharmaceutical Conference.

THE author first cleared up a doubtful point regarding the The author hist cleared up a doubtful point regarding the amount of alkaloid which can be extracted from red cinchona-bark by macerating with dilute hydrochloric acid. The results of a typical extraction confirmed Paul's statement that he was unable to obtain more than about 20 per cent. of the total alkaloids. It was pointed out that the finished extract may contain much more glycerin than the authors of the B.P. process intended it should, so that it would appear preferable to add a definite amount of glycerin to the extract when standardising it, in the same manner to the extract when standardising it, in the same manner as the spirit is added. It was found that glycerin does not exert a solvent action on the alkaloids of the bark, so not exert a solvent action on the alkaloids of the bark, so that the omission of the glycerin in the maceration and percolation processes would have no deleterious effect. A dark gummy body often thrown down on evaporating the dilute extract appears to consist of quinovic acid and cinchona red, which carry down a good deal of alkaloid. It is probable that the hydrochloric acid hydrolyses the glucosides quinovin and cinchotannin to quinovic acid and cinchona-red. The hydrolysis increases apparently with the concentration. the concentration.

Passing now to the standardisation test, trouble had apparently been experienced by some analysts with the method given in the 1898 Pharmacopæia, due to the amount method given in the 1898 Pharmacopeaia, due to the amcunt of mucilage sometimes obtained in rendering the extract alkaline with caustic potash and shaking out with benzolated amylic alcohol. To remedy this defect the 1914 Pharmacopeais replaced the aqueous caustic by a solution of caustic potash in 90-per-cent, spirit. Mr. Chick pointed out that this introduces a sericus inaccuracy to the result obtained. An extract which contains the correct amount of alkaloids (5 per cent.) by the 1898 test, will only show 4.6 per cent, of alkaloid by the 1914 test, an error of 8 per cent, reckoned on the alkaloid. On looking into this difference it was found that 4 per cent. of the total alkaloid (i.e., 0.2 per cent. on the extract) was contained in the (i.e., 0.2 per cent. on the extract) was contained in the rejected caustic liquor, and that a further 4 per cent. passed into the water-washes, being dissolved in the alcohol washed cut of the benzolated amylic alcohol, the water-washes increasing in bulk by 40 per cent. The amount lost in the caustic liquor may be even greater if the separation is not allowed to become complete. The author there-

fore prefers the 1898 method owing to its greater accuracy and the larger bulk of solvents. Very little trouble is experienced with mucilage-formation if the solvents are used hot and thorough shaking is given, the remedy adopted by the 1914 B.P. seeming worse than the disease.

The work was done in the laboratory of Howards & Sons.

Ltd., whom the author thanked for permission to publish

#### The Decomposition of Quinine Bisulphate.

By Bernard F. Howard, F.I.C., and Oliver Chick. Abstract of a Paper Contributed to the British Pharmaceutical Conference.

The authors referred to the rapidly increasing use of quinine bisulphate, hydrochloride, and bihydrochloride, tho time not being very far distant when "quinine" will cease to be a synonym in pharmacy for the sulphate, and this last-named salt will gradually fade into obscurity as one of the less useful salts. The authors pointed out a certain property of the bisulphate which is not pessessed by the sulphate, hydrochloride, or bihydrochloride—viz., the conversion of quinine bisulphate into quinicine or quinotoxin, an alkaloid possessing a therapeutic value undoubtedly differing from that of quinine, and according to several authorities actually harmful. This is no new phenomenon, as it has been referred to on several occasions. The bisulphate is not included in the British Pharmacopoeia, but the authors quoted from other official works, and also the "British Pharmaceutical Codex," to show the wide divergence of opinion that exists as to the "dangerous temperature" for the salt, a matter which becomes of importance where hypodermic solutions are required to be sterilized by heat. The authors, therefore, undertook experiments to ascertain the temperature at which decomposition occurs. The following conclusions were arrived at: The following conclusions were arrived at:

ments to ascertain the temperature at which decomposition occurs. The following conclusions were arrived at:

(1) The exsiccation of quinine bisulphate at a safe temperature (e.g., 35°-40° C) before submitting to higher temperatures raises the limit of temperature at which decomposition is first noticed. Whereas quinine bisulphate (C<sub>20</sub>H<sub>2</sub>,N<sub>2</sub>O<sub>2</sub>,H<sub>2</sub>SO<sub>4</sub>,∀H<sub>2</sub>O) decomposed to the extent of 0.25 per cent. at 60° C., the exsiccated saft showed no decomposition at this temperature.

(2) The addition of a small quantity of water (e.g., half itsown weight) at any dangerous temperature increases the amount of decomposition, whilst a larger quantity of water under similar conditions retards decomposition.

(3) The dangerous limit of temperature at which quinine bisulphate, heated alone or in very strong solution for twenty-four hours, first shows decomposition was found to be 60° C. Above this point decomposition increased, and at 90° C. it amounted to 50 per cent. in twenty-four hours and 75 per cent. in forty-cight hours. If the water of crystallisation is a lowed to escape (i.e., if the treatment is not carried out in a closed vessel) the amount of decomposition was reduced to 17 per cent. in twenty-four hours, owing to the exsiccation of the salt and consequent raising of the dangerous limit of temperature.

(4) It is very doubtful if melting of the hydrated salt can ever occur without decomposition.

(5) In all cases where decomposition occurred, a bright yellow colouration of the "melt," giving a highly coloured, very refractory solution, was noticed, and this may be considered a certain indication of decomposition.

The authors suggest that for the preparation of solutions for hypodermic injection it would be a wise step to use the more soluble bihydrochloride or bihydrobromide, or the scmewhat lcs3 soluble hydrochloride.

#### Information Department.

#### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

74/21. "Formaloids." 74/18. Mohr's clips: makers. 76/1. Amberose soap. 76/46. "Hermine" grea

extractor.

kers. 65/24. "Floriska" pomade. 76/53. "Litholydium," a stone solvent. 77/3. "Pepsodent" tooth-powder.

#### INFORMATION SUPPLIED.

Ammoniated liquorice pastilles, 62/73
"Colonice," 32/37
Corn-planes, 52/22
Elixir Polyglandin, 47/11
Goodman's corn-files, 71/32
Hansen's rennet tablets, 63/58
Jamieson's electric ointment, 59/17

"Laxans," 31/26
"Leecyl," 63/12
"Odorono," 66/46
Oil-pump, 28/16
"Olcaqua" hair-wash, 59/8
Pill and tablet coating machinery, hand power (for India), 34/56
"Riodine" capsules, 70/46

#### Observations and Reflections. By Xrayser II.

#### The Increased Sale of Patent Medicines

since the duty was doubled is the more significant because it has taken place under very adverse conditions. The shortage of paper and other circumstances have so lessened the activity of advertisers that we might have expected from this cause alone a very large decrease in the sale. It may plausibly be argued that patents have advanced strictly on their merits, and it cannot be denied that they have advanced because there is a real demand for them. It is clearly shown, too, that the sale of a popular medicine cannot be stopped by adding three-halfpence to its cost. Self-medication is not always foolish, and foolish self-medication, if it can be proved to exist, can only be checked by the substitution of wisdom for folly in the popular mind—that is, by the spread of education and intelligence. This is the root of the objection to giving any professional class a rigid monopoly of medical practice with power to restrict popular action. Intelligence can only flourish in an air of liberty, and though liberty has its dangers, they must be faced if we are to grow, whether in knowledge or wisdom. But the professions, medical or other, are always, when given power enough, adverse to liberty.

#### Lord Rhondda.

we are told, when he has set Grosvenor House in order a little, is going to deal with profiteering in the drug-trade. I am quite willing, but what is profiteering? The word, like most new words of obscure origin (it does not occur in the great Dictionary), is an ugly one, and of uncertain connotation. It defines nothing, but suggests a great deal; its inventor would have made a dab hand at a libel. I suppose it means the making of an exorbitant profit out of the necessity of the public, an unscrupulous greed. But when does greed become criminal? Is it, perhaps, when it becomes epidemic? If so, we may live to thank the epidemic for opening our eyes to a danger that has always been sporadic among us. "Corners" here and corners there we have put up with, but we cannot live in a world that is all corners. Yet there is more excuse, surely, for being infected with a universal complaint than originating an abuse without provocation. We are all profiteers now to some extent in self-defence. None the less is profiteering an ugly thing, deserving of an ugly name. I only hope that the crusade against it will be thorough-will not stop at the man who makes an extra 100 per cent. on his reduced business-say, in cabbages-but will proceed to the shipowners and underwriters, who, according to Mr. Bonar Law, are piling up huge fortunes hand over fist.

#### The Retailing of Copper Sulphate

at ten shillings per ton profit is clearly impossible without loss in the long run, and those who, as I have done for nearly thirty years, sell hundredweights of wheat-dressing per annum in pound packets, if hitherto they have used this substance alone, or simply carbolised, for the purpose, will now be driven to devise some substitute. Many years ago it was contended by a competent authority that common copperas is equally efficacious with copper sulphate as a preventive of smut. The only good done by either, it was alleged, is due to its tonic effect on the wheat-plant, and the iron is much the better tonic of the two. I have sold both largely, as well as a mixture of the two, and the result proved to my satisfaction that, however it may have acted, the iron sulphate answered as well as either of the others, if not better.

#### Linseed.

which you say is being experimentally grown in South Lincolnshire, was formerly a very important crop in the north of the county, and I know several neighbourhoods in which flax-dressing was a thriving industry. When I first knew the county it was still not an un-common thing to see a field of "line," as it is locally called. When in flower it is a sight not to be forgotten

by the lover of colour. This was many years ago, and I doubt whether any linseed is grown there now, though in those days the enterprising chemist could occasionally turn an honest penny by dealings in it. I understood, however, that it is not worth growing for the seed alone, and the flax-dressing industry was even then a thing of the past. It is stated in "Pharmacographia" that in 1870 there were close upon 24,000 acres of linseed grown in Great Britain. Chambers says that in 1888 there were but 2,208, and no doubt the crop is very much less to-day. This is one of the industries in which Ireland beats us, and it is not the only one we have allowed to slip from us. The news that its revival is being attempted is encouraging.

#### The Apothecary,

as we have just been reminded, had a very intimate connection with the physician, who handed his prescriptions to him, and not to the patient. What monetary arrangement, if any, there was between the two I cannot say, but we may fairly suppose that, directly or indirectly, they would both derive some solid advantage from it. Its effect on the pocket of the patient they would probably consider of minor importance. I confess to being surprised to find that this or a very similar arrangement is still in existence between physicians and medical practitioners nominally above the rank of apothecaries. The practitioner advises his patient to consult some particular specialist, who charges two guineas for his advice, but sends his prescription to the practitioner to be dispensed at his discretion. The practitioner charges half-a-crown for the mixture, and sends it as long and often as he pleases. I have known of several such cases lately, in one of which the doctor's charge for medicine was six times as much as his charge for visits. Such practice may or may not be professional, but it is excellent business. There is nothing wrong with pharmacy of this kind, except that it does not fall to us. Even if it did, we mere tradesmen should be in a very inferior position to the practitioner, seeing that we could only supply the medicine when ordered, whereas he can order as well as supply it. But while such arrangements continue I am afraid the hopes of our ever getting the sole right to dispense are remote.

#### Trade Notes.

PRIZE-COURT SALE.—A sale by public tender of chemicals in prize is announced by D. W. Greenhough & Son, 21 Mincing Lane, London, E.C. 3, from whom tender forms and particulars can be obtained.

and particulars can be obtained.

LIQUID PARAFFIN.—Reddgrave, Butler & Co., Essex House, Stratford, London, E., ask us to emphasise the fact that they guarantee immediate delivery of their paraffinum liquidum, B.P., and white paraffin oils.

MARYLEBONE CREAM, devised by Dr. Eric Pritchard and first manufactured by The British Drug Houses, Ltd., was exhibited at a demonstration of infant-feeding at the Central Hall, Westminster, on July 4. Literature and samples can be obtained on application.

DRUG-AUCTION.—Toplis & Harding, 66 Cannon Street, London, E.C. 4, announce in the Coloured Supplement that their next sale of chemical products is to be held at the London Commercial Sale-rooms on July 24, and that saleable stock can be included by merchants and others.

RAPID CONSTRUCTION of buildings is ensured by the use of Calno fire-resisting board. The Thames Mills, Purfleet, offer to send samples and prices to applicants. The Thames Paper Co., Ltd., Purfleet, Essex, on the same page give particulars of Fiberite packing-cases, which are offered as a substitute for wooden boxes.

WINDOW-DISPLAY COMPETITION.—Ayrton, Saunders & Co., ttd., wholesale druggists, Liverpool, are offering prizes of packed goods for photographs of window-displays of any of the goods advertised in "Ayrton's Supplement" for July. Those who have not received a copy of this publica-July. Those who have not received a copy of this publica-tion should send for one, as the contents are quite out of the ordinary. Tea tablets are booming under the stimulus of advertising in the daily papers, and we are asked to remind chemists that those requiring fresh show materials with the new prices should send a postcard request to the company.



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## Editorial Articles.

#### State Recognition of the Drug-trade.

Although the proceedings of the British Pharmaceutical Conference, which was held this week, occupied only an hour or so, everyone is agreed that altruistic scientific work must give way to efforts directed to overcoming the machinations of the most dangerous enemy to human liberty with which the world has ever been afflicted. This necessity of shortening the Conference gives to the President's address an additional importance, especially as in years to come these war-time addresses will represent the summation of the topics which concerned the drug-trade in the period of international conflict. It is not that there is any dearth of subjects directly suggested by the war, but interest rests more in the choice of a topic from so many which present themselves. At the first War Conference in 1915 Major E. Saville Peck, who was President, dealt very appropriately with the organisation of pharmacists for war, and put forward the valuable suggestion that an Army Pharmaceutical Corps should be established as a separate unit. Although the scheme has not notably advanced, it has not been superseded by any plan likely to find greater acceptance by the Army authorities. Last year Dr. David Hooper, in his address, considered the question of the drug-resources of India and the Colonies, and did this in an authoritative manner due to his long official connection with the Indian Civil Service. Mr. C. A. Hill, this year's President of the British Pharmaceutical Conference, is a typical representative of the modern wholesale drug-trade-scientifically educated and keen in commerce—and there has been a natural curiosity as to the topic he would take for his address. An abstract of the discourse is given on another page of this issue, but we may usefully refer to some of the points of the address. The rise in prices of medicines, we are assured, compares favourably with other trades, and it is mentioned that some values will go higher still during the war, and afterwards will not return to pre-war levels. When one considers the difficulties in obtaining raw natural products, the rise in the price of labour, and the absorption of supplies for national purposes, it is obvious that prices cannot take a downward direction for the present. We have hopes, however, that soon after the war the level of prices in this country will compare favourably with those in other countries. The despondency of a debt-laden, if not conscience-stricken, Germany should effectually handicap her in all markets, especially as the nations of the world are not likely to show much inclination to deal with people who have shown that they lack the elementary principles of honour upon which mutual trust in business depends. Mr. Hill refers to the difficulties in maintaining official standards for drugs, and of obtaining sanction for modifications in galenicals containing sugar and glycerin. The first of these matters has already attracted attention in Holland, and the views of Professor Van

der Wielen, of Amsterdam, have been given in THE CHEMIST AND DRUGGIST, although, so far as we are aware, the suggestions have not received official recognition. In this country there is the additional difficulty that the part taken by chemists in the preparation of the Pharmacopæia is, to say the least, humiliating to a class of the community which should be regarded as experts in the preparation of medicines. The position is not im-proved by the fact that the Pharmaceutical Society, which could have represented pharmacists in this matter, has broken off relations with the Pharmacopæia Committee. This leads us to the most important part of Mr. Hill's address—that in which he pleads not only for the better recognition of the drug-trade by the Government, but for the appointment of a representative body who could place the views of the drug-trade as a whole before Government Departments. The want of some such representative body has been felt frequently during the past three years, but in peace-time there are many occasions when such a body could do useful work in enlightening the Government on technical questions. The medical profession seem to have no difficulty in impressing their views on officials. There have been not only in large ment, but for the appointment of a representative body The medical profession seem to have no difficulty in impressing their views on officials. There have been numerous instances of late years, not only in large measures, such as the National Insurance Acts and Venereal Disease Act, but in minor points. As an example may be quoted the modification of the Cocaine Order which we published last week. Here the medical men were by a stroke of the pen exempted from the requirements of the Order in the case of Insurance prescriptions, whilst the opportunity was taken to increase unnecessarily the difficulties of chemists in dealing with unnecessarily the dimculties of chemists in dealing with the prescriptions of private patients. This case is hardly one which Mr. Hill has in view, but it raises the broader question as to whether the Pharmaceutical Society, which has so lamentably failed in this and other instances to present to the Government Departments the dispensing chemist's position, is exactly the body to undertake the organisation of a Committee which would work on the broadest and most authoritative lines. The nearest approach to Mr. Hill's idea was the constitution of the Local Associations Executive Committee, where care was taken, in the most bureaucratic Society should always predominate, although, as it turns out, panel chemists have to pay the piper. The British Pharmaceutical Conference by its constitution includes all the elements of pharmacy in Great Britain and Ireland, and it would seem to be the body to which should be entrusted the elaboration of the scheme and the adjustment upon the Committee of the representation of the various component parts of the drug-trade.

## The Chemist's Title. IV.—Summation.

WE have now considered the various titles borne by or suggested for us, and it only remains to bring the consideration to a practical point. We must not be understood as advocating a change of titles; personally, we are content with those we already enjoy; we do not think that any one of them could be surrendered without loss, or that, having them, we need desire any additional distinction of the kind. But we are assailed on the one side by complaints from "professional chemists" that we have unjustly deprived them of a title to which they have a better moral claim than we, accompanied by a persistent though unofficial attempt to coax it from us, while on the other hand the Society of Apothecaries would like us to give these titles and all the privileges they convey to those who have not passed our qualifying examination. The latter is a menace, which may have to be met by some compromise. We suggest a mode in which this might possibly be arranged with no great loss if we could secure the friendly offices of those men of science who are themselves seeking something from us as mediators in the matter. The professional chemist, in a sense, may have a certain grievance, but it is one for which we are in no way to blame unless it be the folly of the leaders of pharmacy in 1877, who connived

at the foundation of the Institute of Chemistry instead of shaping the Major examination so as to make the Institute unnecessary. In the opinion of a number of pharmacists it is not yet too late to convert the Major into an examination which would fit those who pass it to take their places as analysts or professional chemists. Any readjustment of the pharmaceutical examination might make it possible to correct the blunder of forty years ago. It is an appropriate time to consider the question of the institution by the Pharmaceutical Society of examinations to meet the growing need for chemists in the industries, and it would raise the Major examination from the deprival condition into which it has follow tion from the despised condition into which it has fallen. It may be conceded, we think, that when the earlier Pharmacy Acts were passed the effect was not realised of granting to us an exclusive right to the title of chemist, and that it would prevent others, who are in no sense rivals of ours and who have a good right to be knownas, indeed, they actually are known—by this name, from using it even in a manner that is not at all inimical to our interests. It was, we may fairly assume, the right to keep open shop as chemists and druggists, or, as the Act of 1868 added, as chemists or druggists, and this only, that was probably meant to be given exclusively to us. This object could be secured were our exclusive right to the title of chemist given up, but the most that could be asked for by a body which has nothing to offer would be that we do not use the word without a qualification dispensing chemist or pharmaceutical chemist. On the other hand, if the professional chemists are in a position to employ friendly influence in helping us to secure the monopoly of dispensing, they would possess a lever for the use of which some concessions would prob-ably be justified. The retail drug-trade has not an altogether rosy outlook when viewed from the threatened extinction of small traders by huge trusts and multipleshop keepers, were it not that the advent of Insurance dispensing has converted all chemists into "dispensing chemists" in reality. Our safety lies in our special function as dispensers of medicine, using the term in its widest signification; and the time seems ripe for a bolder attempt than has yet been made to secure the sole right to this work. The principle has already been conceded by the State; all we have now The principle to do is to convince the medical profession of the necessity of specialisation in this as in other branches of industry, and to make it worth their while to give up to us what is not really their business. There are two sacrifices we can make in return—an abandonment or limitation of counter-prescribing, and an arrangement with the Society of Apothecaries for admitting their assistants to our ranks. Neither of these directly affects we there are the counter of the second of our titles, but we might accept a change of title along with the new position we should gain. Let it be said boldly that if our chemical friends, in conference with the apothecaries and ourselves, could facilitate the arrangement we propose, we should be as ready to meet them in the matter of title as to meet the apothecaries in regard to the admission of their assistants into our ranks. On the latter point it may be conceded that we are so badly in need of qualified assistants, and the necessity of an assistants' examination is so urgent, that we should rather welcome the accession to our staffs of those who have already qualified as apothecaries' assistants, without any further examination than they have passed, and might admit them to full rank as pharmacists on condition of their submitting to some not too stringent Modified examination on the lines of that of the Act of 1868 for our own unqualified assistants. A time-limit would have to be imposed on those proceeding to this examination, after which the full pharmacist's qualification would be exacted from all before they could keep open shop for themselves. The final abandonment of shopkeeping by apothecaries, and the widening of the scope of work for those who have have obtained a certificate which only empowers them to act as assistants to apothecaries, should close two controversial subjects in a manner satisfying to the dignity of the Society of Apothecaries. This programme, which may or may not be feasible, is put forward for discussion so as to judge whether the subject is within

the sphere of immediately practical politics. As for titles (to come back to our text), we might, if "chemist" were entirely surrendered, adopt that of pharmacist and apothecary. Our succession to the place of the old apothecaries would thus be signified, and would appropriately be put in the second place to indicate that we have no desire of encroaching upon the province of the doctor, but regard pharmacy as our chief function. To accomplish these aims would need a series of round-table conferences and an Act of Parliament, but we put forward this question of titles as a contribution to the reconstruction which will take place in all worldly affairs after the war, and which will not stop at pharmacy.

Ropiness in Bread.

MANY of the complaints regarding the unsatisfactory character of war bread are due to the fact that the bread-disease known as "ropiness" is very prevalent at the present time. Warm bread favours the growth of the bacillus (B. mesenterieus) which causes it, as does also the fact that the flour used contains nearly the whole of the grain. The bacillus is introduced into the dough through the flour, in which it sometimes occurs in large numbers, possibly coming from the bran-coats. The bacillus is a prolific spore-former, the spores being capable of resisting high temperatures for prolonged periods. Mr. E. J. Watkins, the results of whose inves-Section of the Society of Chemical Industry in 1906 and published at the time in The Chemist and Druggist, found that if the natural faint acidity of bread is increased by the addition of small quantities of acetic acid (0.3 lb. per sack) to the dough, development of ropiness can be prevented. As some of our readers may be asked by local bakers to test flour for the B. mesenterieus, we give the Watkins test:

we give the Watkins test:

Ten test-tubes (6 in. by 1 in.) are thoroughly boiled in water for one hour, washed and drained, then sterilised at 450° F. for three hours, cooled, and plugged with cotton-wool. In order to test a flour, 2 grams is taken from samplo and well mixed with 100 c.o. of distilled water. The beaker containing the mixture is placed in a boiling water-bath for thirty minutes, in order to destroy all organisms except spore-formers like B. mesentericus. To a series of ten prepared tubes add successively 1 to 7 c.c. of the boiled-flour mixture to seven tubes, leaving three tubes to serve as checks. Number the tubes in rotation. Immediately the tubes have been inoculated the wool plugs are replaced and the ten tubes put into an incubator at 28° C. At the expiration of twenty-four hours the tubes should be examined both for appearance and also by smell for indications of ropiness. If B. mesentericus be present the whole of the tubes containing the flour-solution will generally exhibit positive indications of ropiness, the check-tubes remaining unchanged The experiment should be continued a further period of twenty-four hours, with examination at intervals for confirmation by noting the rate of increase of the disease which is usually rapid. If the tion at intervals for confirmation by noting the rate of increase of the disease, which is usually rapid. If the tubes reveal no indication of ropiness in forty-eight hours, the flour may be passed as sound.

Control of American Exports.

PRESIDENT WILSON and his Cabinet, on June 19, decided to put into operation on July 19 the Exports Embargo Proclamation prohibiting the exportation, without Government licence, of food, grains, meats, fats, coal, Government licence, of food, grains, meats, fats, coal, coke, oils, fertilisers, arms, munitions, iron, and steel. In his statement accompanying the Proclamation the President declares that the Government's policy is, first, to give consideration to American needs; next, to meet as far as possible the requirements of the Allies; and, lastly, to supply neutrals wherever practicable. It is made clear that every effort will be used to see that no supplies reach the Central Powers. An Export Council has already been set up to work out a system of rationing for European set up to work out a system of rationing for European nations, and a licence will have to be obtained for shipment abroad of any article placed on the "controlled list." The Proclamation imposes a fine of 2,000% on persons found guilty of evading its orders, and the seizure of all cargoes shipped in American bottoms in contravention thereof. Although no drugs or chemicals have been placed on the prohibited list, some uncertainty

prevails in the United States as to a possible extension of the embargo, in view of the domestic requirements and those of the United States Government. The present control may therefore be looked upon as a beginning, and we should not be surprised if, as time goes on, the shipments of certain chemicals will only take place under licence, especially when the exports are destined for Scandinavia, Holland, Spain, and other neutrals.

#### Concerning Artificial Limbs.

The writer, a pharmaceutical journalist, who holds a com-mission in the Army, has had the misjortune to lose a leg in the war. He thinks this information in regard to artificial limbs, acquired in the hard school of experience, may be of interest to the drug-trade.

ONE result of any great war is naturally a large number of casualties caused by gunshot and bullet wounds in the leg or arm, necessitating amputation. It is not surprising, therefore, that the present war, with its many ramifications, should exact a far heavier toll in the loss of arms and legs than any previous conflict. At a moderate estimate many thousands of our British soldiers are minus a leg or an arm—sometimes both—after visiting France or some other sphere of warfare. Fortunately for these men, surgical science has made such rapid progress that in nearly every case it is possible to make good the deficiency nearly every case it is possible to make good the deficiency

nearly every case it is possible to make good the deficiency by means of a satisfactory artificial appliance.

A visit to Roehampton, where most of these limbs are made and fitted, shows that the Government have resolved to replace limbs lost in the war with the latest appliances approved by surgeons, and then give the men all the advantages of a beautiful country house in which to get used to them. In the grounds of Roehampton House are the workshops of the limb-makers—Americans chiefly—who have specialised in this work for many years, and come over here at the request of the British authorities to undertake the biggest job of their lives.

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After about six months from the date of amputation a "stump" is usually ready to be measured and fitted for an artificial leg. A good deal depends upon whether the amputation took place below or above the knee. If the former, then the patient is indeed lucky, for nothing artificial can entirely take the place of a natural knee movement. Most men require a full-length leg, fitting at the hip and kept in position by the aid of a pair of shoulderstraps and a leather belt. The wood used is willow; it is strong and durable, without being heavy. Happily, there is no difference between the leg supplied to the rank-and-file of the Army and the limb made for officers, except that the latter is slightly better finished. The writer saw at Roehampton the bearer of an historic name and title that the latter is slightly better finished. The writer saw at Roehampton the bearer of an historic name and title being fitted in one room with a leg precisely similar to that supplied to a British Tommy in an adjoining room. It usually takes six weeks to get accustomed to a leg. Like learning to ride a bicycle, confidence and balance are most necessary. The walking "parades" at Roehampton afford great fun to the spectators. Before a man is allowed to pass out he must walk before the surgeons with the aid of only one walking-stick, and if he is at all shaky he is put back for further practice. The weight of an Army leg is from 7 to 10 lb., aluminium legs weighing a couple of pounds having been found unsatisfactory, besides costing between 70l. and 100l.

Men who desire to learn new trades have every opportunity in the workshops and training-schools attached to the grounds; there is never any difficulty in getting a man

Men who desire to learn new trades have every opportunity in the workshops and training-schools attached to the grounds; there is never any difficulty in getting a man placed in suitable employment after passing through a course of instruction at Rochampton. From the point of view of practical use an artificial leg is more serviceable than an arm, although a friend of mine with two artificial arms can use a pen and play a very good game of billiards. The Queen Mary Auxiliary Hospitals for Limbless Sailors and Soldiers are now managed by a Committee, with Miss Fagge, St. Stephen's House, Westminster, S.W., as the directing Secretary and Registrar. Although the industry of artificial-limb making is mostly in American hands, it is satisfactory to note that progressive British houses such as S. Maw, Son & Sons, Ltd., have turned their attention to the supply of up-to-date crutches, with the object of obviating what is known as "crutch paralysis" caused by the use of ordinary crutches. These new crutches are well worthy of attention by C. & D. readers, as recent experience has shown that the "hospital" department of many country and provincial chemists has hardly made the progress demanded by the war conditions of the present day.

#### Deaths.

HILL.—At Naini Tal, India, on June 28, Professor Ernest George Hill, F.C.S., B.Sc., etc., aged forty-five. Principal of Muir College, University of Allahabad, to which posi-tion he was appointed in 1913, following on a Professor-ship in Chemistry, Professor Hill was also a Fellow of Allahabad University and Dean of the Faculty of Science.

Jackson.—At Westcliff-on-Sea, on July 1, Mr. Frederick Jackson, aged fifty-nine, for forty-five years with A. & M. Zimmermann, 3 Lloyd's Avenue, London, E.C.

Morrison.—On June 24, Mr. T. C. Morrison, chemist, Peel (I. of M.), aged fifty.

WRIGHT.—At 1 Gayfield Place, Edinburgh, on July 9, Mr. James Wright (father of Mr. Victor Wright, chemist and druggist), aged eighty-four.

#### Died on Service.

Brown.—Lieutenant Chas. A. Brown, eldest son of Mr. R. C. Brown (manager of Parke, Davis & Co.'s Hounslow



LIEUTENANT C. A. BROWN.

laboratories), was killed in action, on the Flanders front, on July 5. Although exempt from liability to service both by age (just over seventeen) and by nationality (he was an American citizen), he gave up the medical course the medical course entered at St. Bar-tholomew's Hospital to join the O.T.C. over two years ago. He received his commission in due course, and was in the front trenches in October last, some months before he attained the age of nineteen. He was an exceptionally bright and lovable boy, whose untimely death will be mourned by a host of friends.

HENRY. - The death has occurred Engineers (Gas Section), who was wounded while attacking the enemy on the night of June 27-28. Private G. Henry spent most of his life at Tylorstown as an assistant with Mr. W. R. Williams, Pharmacy Hall, and prior to entering the Army had been for some years on the staff of Boots, Ltd., and quite recently, while on leave, paid a farewell visit at their branch in Aberdare. His sudden and early death is keenly felt by his confrères and numerous friends in the district, who held him in high esteem for his many amiable and excellent qualities. His commanding officer also pays a high tribute to his character and cheerfulness. death has occurred

#### Marriages.

ARNOLD—ATTFIELD.—At St. Andrew's, Watford, on July 5, by the Rev. J. H. Harvey, Vicar of Datchet, and the Rev. Philip Deedes, of St. Albans, Edward Willshin, only son of Edward Arnold, of The Bury, St. Albans, to May Maud, younger daughter of the late Professor John Attfield, F.R.S., Ashlands, Watford.

HIBBETT—BORE.—At St. James's, Church Hill, Sutton Coldfield, on July 5, Harold Victor Hibbett, pharmacist (Reade Bros. & Co., Ltd.), Wolverhampton, eldest son of Mr. and Mrs. A. Hibbett, Walsall, to Caroline Hildegarde (Hilda), eldest daughter of Mr. and Mrs. W. J. Bore, Four Oaks, Warwickshire.

MACKENROT—HANNA.—At the Registrar's Office Dublin

MACKENROT—HANNA.—At the Registrar's Office, Dublin, Second-Lieutenant William Mackenrot, 11th Cavalry Corps, eldest son of Frank Mackenrot, of Bundaburg, Queensland, Australia, to Mildred Eileen, only daughter of Mr. William Hanna, J.P., Ph.C., Bangor, Down.

PARKE—CRAMPTON.—At the Methodist Church, Clonmel, on June 26, by the Rev. J. P. Carter, David W. Parke, Ph.C., Clonmel, to Elizabeth Emily, second daughter of the late John G. Crampton, Ballytore, co. Kildare.

SMART—MABEN.—At Herne Hill Congregational Church, London, on July 7, by the Rev. J. Allardyce, Henry Gordon Smart to Annie Robina, younger daughter of Thomas Maben Ph.C. E CS

Maben, Ph.C., F.C.S.

#### Silver Wedding.

UMNEY—CARTER.—On July 14, 1892, at St. George's, Bloomsbury, by the Rev. Corrie Jackson, M.A., Chaplain of the Foundling Hospital, John Charles, second son of Charles Umney, of Eardley House, Sydenham, and Southwark, S.E., to Constance Ellen, fourth daughter of the late John Sloane Carter, of 31 Bcdford Square, W.C., and Red Lion Buildings, Giltspur Street, E.C.

#### Personalities.

Mr. F. D. Spencer, chemist and druggist, Stratford-on-Avon, passed the Intermediate examination for the M.R.C.S., L.R.C.P. diploma at the June examination.

THE list of special contributions to the Benevolent Fund, given in The Chemist and Druggist, July 7, p. 46, has been further extended by a donation of 100 guincas from Burroughs Wellcome & Co.

MISS DOROTHY LLOYD, daughter of Councillor Henry M. Lloyd, chemist, Merthyr, has passed the B.A. examination of the University of Wales, in addition to which she has been awarded an Exhibition Scholarship by the Scnate of the University College of Wales.

Me. P. L. Smith, chemist, Kobe, Japan, arrived in London last week, travelling via New York. He is on a business visit to this country to make arrangements for the purchase, now or after the war, of chemical raw materials for Japan. He is also interested in several lines of Japanese toilet-articles.

Mr. A. Francis, dispensing chemist, New Tredegar, was, at the annual meeting of the New Tredegar and District Chamber of Trade, unanimously elected President for the cusuing year. He has served as Sccretary for two years, and is Hon. Treasurer to the Local Relief Committee, which pays out nearly 50l. per week to the dependants of soldiers and sailors. and sailors.

ELSIE TRANMER, daughter of Mr. H. M. Tranmer, dispensing chemist, Smethwick, passed with honours the Intermediate Arts examination held recently at the Birmingham University. Mr. Tranmer's son Edward was placed first in chemistry (second year) and first in botany (first year) at the Birmingham Technical School just before joining the R.N.R. in June.

DURING THE GERMAN AIR-RAID ON LONDON on July 7 many DURING THE GERMAN AIR-RAID ON LONDON on July 7 many poor people whose homes were attacked received injuries which necessitated attendance at the out-patient departments of the hospitals. At St. Bartholomew's Mr. Langford Moore, the chief dispenser, by his ready help so excited the gratitude of these-poor patients that a "whip round" was made, which resulted in the collection of 16s. 4d., chiefly in farthings, for the "doctor." The money, of course, has been handed to the hospital funds, Mr. Langford Möore retaining two of the smallest coins as souvenirs

At the degree eeremony at Manchester University held on June 30. Miss Ivy Roberts had conferred on her the degree of B.Sc., and was the only candidate in the first division. Miss Roberts passed the Major last April, fcllowing it up by gaining the Pereira medal. She has now obtained an appointment with Jewsbury & Brown, Manchester Miss Coverdales Humphrey why recent the Manchester.—Miss Gwendolen Humphreys, who passed the Minor last April, has now passed the Inter. Sci. in chemistry, physics, and botany. Miss Humphreys is a daughter of Mr. G. Humphreys, Ph.C., Northwich.

Mr. George Richardson Boyes, one of this year's Bell scholars, is the son of Mr. W. J. Boyes, 61 Balham Hill, London, S.W., the Treasurer of the S.W. London Pharmacists' Association. Mr. G. R. Boyes was educated at the Emanuel School, Wandsworth Common, and passed the Matriculation examination of the London University the Matriculation examination of the London University before entering upon his apprenticeship in his father's business. He studied for the Bell scholarship at Battersea Polytechnic, under Mr. R. L. Griffiths, F.I.C., going through a full course of lectures and practical work in chemistry, pharmacy, and botany. At the same time he had a course of postal lessons from Mr. Dawes, Chancery Lane.

#### Association Affairs.

Aberdeen.—A meeting of the Aberdeen Junior Chemists' Association was held in Gordon's College on June 29 to consider the reforming of the Association, which has not met since war was declared owing to the majority of its members joining the Forces. After considerable discussion, it was agreed to carry on the Association as formerly, and a representative Committee was appointed. An outing has been arranged for July 25 to Bridge of Don, the company to meet at Castle Street at 2.30 p.m.

Bradford.—On July 4 members of the Bradford Pharmachem and the second se

Bradford.—On July 4, members of the Bradford Pharmacists' Association and lady friends, to the number of forty-two, indulged in a ramble over the pleasant hill country surrounding the town. The party travelled to



BRADFORD RAMBLERS.

Allerton by tramear and walked by Sandy Lane and the Harden district to Bingley, where they had tea and were welcomed by the President (Mr. R. T. Silson), afterwards strolling by the riverside and visiting a house once occupied by John Wesley.

Cambridge.—The Cambridge and District Pharmaceutical Association met at Mason's Café on July 5. Alderman A. S. Campkin, J.P., prosided, and called attention to the Pharmaceutical Council's discussion on the sale of copper sulphate. He has already communicated with Sir Richard Winfrey, M.P., in accordance with the Council's instructions, and is hopeful of obtaining some improvement on the present unsatisfactory conditions of retail sale. The Secretary reported that the Pricing Bureau required explanations regarding a prescription for "wood-wool," which the doctor had ordered thinking it was cheaper than cottonwool. The account was passed for payment, and practitioners are to be requested to adhere strictly to the Tariff. It was reported that methylated liniments may be supplied to insured persons when B.P. liniments are prescribed. The Federation meeting at Bury was discussed, and Messrs. Barker and Evans were deputed to attend the Ipswich meeting, with Messrs. Flanders and Church in reserve. A long discussion followed on "Military Service: New Development." ment."

"Script" Sports Club.—The Team Bowling Tournament of the London District Associations opened on July 5. In the Western v. Eastern match, Messrs. Procter, Riley, Hamilton, and James (Skip) scored 17 for the Western against Messrs. Goode, Hadfield, Woods, and Wilson (Skip), who made 25 for the Eastern; while Messrs. Roe, Nicholson, Wilkinson, and Widgery (Skip) (Western) totalled 31 against the 13 of Messrs. Abelson, Lawrence, Styles, and Keith (Skip) (Eastern); the Western teams thus winning with an aggregate of 48 against 38. In the North-Eastern v. Northern match Messrs. Wells, Anderson, Scott, and Rees (Skip) scored 11 for the N.E., and Messrs. Honiatt, Dunn, McRostie, and Dow (Skip) 31 for the Northern; while Messrs. Edwards, Buchan, Taylor, and Beckwith (Skip) only made 10 for the N.E., to which Messrs. Bennett, Hearle, Rawlins, and Bowie (Skip) replied with 39 for the Northern, the latter thus aggregating 70 against the North-Eastern's total of 21. "Script" Sports Club.-The Team Bowling Tourna-

Eastern's total of 21.

Sheffield.—Tho annual meeting of the Sheffield Pharmaceutical and Chemical Society was held on July 4, Mr. H. G. Williams presiding. The report and balance-sheet were adopted, the latter showing an increase of 3l. 4s. 1ld. Five new members were elected. Messrs. H. Anteliffe, F. T. Appleton, J. Austen, A. H. Culverhouse, A. Knowles, and E. Preston were elected to the Council, Mr. Honderson having retired. Ten guineas was voted to the Pharmaceutical Society's Benevolent Fund. A Committee was appointed to obtain a list of pharmacists and assistants who have joined the Colours, with a view of forming a Roll of Honour. Steps are to be taken to secure representa-

tion on the Committee for the treatment of venereal diseases, and also on that for dealing with trade after the war. The question of a minimum price-list was referred to the Council. Attention was called to the wholesale infringements of the Pharmacy Acts since the abolition of Divisional Secretaries.

Women Pharmacists.—The annual meeting of the Association of Women Pharmacists was held at Dr. Williams's Library, Gordon Square, W.C., on July 5, Miss Buchanan in the chair. No nominations had been received for membership of the Committee, so there was no contest. Miss Sharples was co-opted on the Committee. Miss Gilliatt is compelled to resign. The officers' reports were adopted, and a good discussion followed.

## Insurance Act Dispensing. A Record of matters concerning Chemists' interests in the National

Health Insurance Acts.

#### Reports from Local Centres. ENGLAND.

Blackpool.—The Insurance Committee met on July 2, when Councillor Potter resigned the chairmanship, which he has held for four years. Councillor Fletcher was elected Chairman, and, in reviewing the work of the past year, stated that the prescriptions dispensed numbered 37,843, compared with 43,932 for the preceding year, the average cost being 6.44., against 6.94. in the previous twelvemonth.

Bradford.—In publishing an appeal to Insurance patients to do everything possible to minimise labour and time on the part of the local panel doctors, the Bradford Insurance Committee point out that instead of the normal 128 practitioners on the panel there are now only 119, of whom twenty-eight are on military service.

Gloucestershire.—The Insurance Committee met on July 7, when a statement for 1917 was presented showing the number of prescriptions dispensed to be 131,003, at a cost of 3,446L, averaging 6.31d. per prescription and 19.35d. per insured person.

Lancashire. - The Insurance Committee have received a letter from the Commissioners, stating that it appeared doubtful whether the procedure hitherto adopted by this Committee in considering claims by dispensers for exemption Committee in considering claims by dispensers for exemption from military service is now adequate to secure efficiency in the dispensing service in view of the increasing demands of the recruiting authorities and the greater depletion of chemists' staffs. The amount of dispensing-work done in chemists' shops and the number of dispensers available must be known if the Committee are to be in a position successfully to combat claims by the military for indispensable men. In the case of disagreement between the Committee and the military, the former must be in a position to supply the Commissioners with detailed information tion to supply the Commissioners with detailed information as to the chemists' businesses in the area, in order that the question might be thoroughly discussed with the War Office. It was decided that the Pharmaceutical Committee should be asked to supply the necessary information.

mittee should be asked to supply the necessary information.

Sheffield.—A meeting of panel chemists was held on July 4, Mr. H. G. Williams presiding. The annual report was discussed. The pricing of prescriptions had been very accurately done by the N.E. Midland Pricing Bureau. The 1211. agreed to be paid to the Society had been reduced by one-third, and the new arrangements would work out at a further reduction of 121. for the year. The cost of checking worked out at about one-third of the cost of pricing for 1916 and 1917. The accounts for 1915 had been paid in full after a conference with the Commissioners. The extra grant of 0.3d, for establishment-charges showed an addition of 5.7 per cent. to the accounts. It was pointed out that a small balance is due, if not already paid, to the chemistor as a return of over-deducted administrative expenses, and that these expenses are likely to be less for 1917. A very healthy discussion took place on Insurance administration. administration.

#### SCOTLAND.

Edinburgh.—At a meeting of the Insurance Committee on June 28, it was reported that the amount paid to chemists in respect of their accounts for April was 3944. 19s. 9d. A report on the Central Checking Bureau's statistical statement for 1916 showed that it had been decided to draw the attention of the Pharmaceutical Committee to the abnormal figures of six or seven doctors to whom the Commissioners had referred in a letter to the Insurance Committee. The Sub-Committee considered that the figures of the seventh doctor were accounted for by the fact that he was in partnership with another practitioner,

and the joint figures were reasonable. It had been decided and the joint figures were reasonable. It had been decided to point out to the Pharmaceutical Committee that if they had taken action on the monthly and other reports received from the Bureau and forwarded by the Committee to the Pharmaceutical Committee the heavy cost of these doctors would probably have been considerably modified. With reference to the stock-order forms, it was decided that the attention of the Pharmaceutical Committee should be particularly drawn to the case of one doctor who had issued twenty-three forms to the value of 7l. 6s. 11½d. The total number of scripts dispensed in 1916 was 119,630, and the value 5,215l. 9s. 4d., compared with 142,176 scripts in 1915, value 6,192l. 8s. 6½d. The charge against the Drug Fund for 1916 was 955l. 5s. 1d. below that of 1951, whilst 22,546 fewer scripts were issued. The average value per form for 1916 was 10.46d., compared with 10.45d. in 1915, the average value per form for Scotland being 9,74d. The balance at the credit of the Drug Fund at the close of the year 1915 was 845l. 13s. 7d., and according to the Commissioners' instructions 450l. 16s. 7d. should be carried to the credit of the 1916 fund, leaving 394l. 17s. available for a bonus to the chemists. The Committee agreed to apply to the Commissioners for consent to the payment of a bonus of 653l. 13s. 7d., leaving 192l., or ½d. per insured person, to be carried forward to the credit of the 1916 Drug Fund. to point out to the Pharmaceutical Committee that if they

#### WALES.

Pembrokeshire.—The Finance Committee has sanctioned payment of chemists' accounts for February, March, and April, and the balance due on account of the quarter ended March (3841. 9s. 5d.).

#### Note.

Doctor and Patient.—At Manchester on July 3, Mr. E. Fischer Williams and Drs. Whayley Brown and J. Russel held an inquiry into charges made against Dr. H. R. Wray Strange, of the Manchester panel, the complaints being neglect of a patient and false records. It was alleged that the patient, who was suffering from phthisis, had been visited only ten times in thirty-two weeks, the prescriptions being the same throughout (mist. expect.), and ultimately died. It was further alleged that the doctor, although duly notified of his obligations under the L.G.B. regulations, failed to keep a clinical history of the case. Evidence was given in support of the charges, and the defence was a denial of the neglect and a plea of ill-health. The Commissioners' decision will be announced. missioners' decision will be announced.

#### Pharmacy Acts.

Examinations in Edinburgh.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted Minor certificates at the recent examinations held in Edinburgh:

held in Edinburgh:
Allan, William Alex., Edinburgh
Cowie, Ellen, Edinburgh
Duncan, Mabel M. B., Portobello
Gardner, Agnes M. W., Larkhall
Hancock, Percival M., Glasgow
Harbinson, John, Glasgow
Irvine, James McNicol, Glasgow
Marr, Arthur W. H., Aberdeen

Miller, Frances Hall, Glasgow
Morpeth, G. J. F., Edinburgh
Sommerville, W., Prestwick
Watson, Edith S., Portobello
Whitehill, Peter W., Glasgow
Whiteside, Claude G. J., Ayr
Wilson, William, Edinburgh

#### Proprietary Articles Trade Association.

THE twenty-first annual meeting of the P.A.T.A. was held

The twenty-first annual meeting of the P.A.T.A. was held on the afternoon of July 12 in the Queen's Salon, Holborn Restaurant, London, Dr. Pilley (Mellin's Food, Ltd.) presiding. The annual report was read by the Secretary (Mr. W. S. Glyn-Jones, M.P.).

The Chairman, in moving the adoption of the report, said that the most gratifying fact which it brought home is that the Retail Section, which is the backbone of the Association, now includes 5,100 active, live members. Little active propaganda work could be done under existing conditions, but it is specially gratifying that not only was the Association well and actively alive, but was actually increasing in strength, Mr. P. F. Rowsell seconded.

Mr. W. L. Currie praised the local Secretaries for the work they had accomplished during the past year.

The annual report was then adopted.

The annual report was then adopted.

On the motion of Mr. J. Keall, seconded by Mr. S. Kutow, a votes of thanks was accorded the Chairman for presiding.

The annual meeting of the Chemists' Defence Association

#### Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

NATIONAL INSURANCE ACTS.

Sir E. Cornwall, answering a question in the House of Commons on June 28, said he hoped at an early date to introduce a non-controversial Bill to amend the National Insurance Acts.

OWNERS' RISK RATES ON RAILWAYS.

Our Parliamentary correspondent learns that a Bill is to be introduced into Parliament to secure an alteration of the law relating to owners' risk rates on railways.

METALLURGICAL CHEMISTRY.

It is, our Parliamentary correspondent is informed, intended to establish a new Department of the Government for the pursuit of the study of chemistry as applied to metals and other kindred industries.

THE RUSSIAN-CONSULAR SERVICE.

The Board of Trade are inviting observations as to the desirability of the creation of new Russian Consular posts in the United Kingdom. At present there are not more than five salaried Russian Consular posts in this country.

MINISTRY OF COMMERCE.

Representations, our Parliamentary correspondent states, are again being made to the Government in regard to the establishment of a Ministry of Commerce, and it is probable that the Prime Minister will be asked to receive a deputation on the subject.

PRODUCTION OF SHALE OIL.

The Minister of Munitions announced on July 9 that, as a result of steps which had been taken, there has been an increase in the production of shale oil in Scotland, but it is hoped that a still further increase may be obtained in the near future. Ample storage accommodation is avail-

MEDICAL AND DENTISTS' REGISTRATION (GRENADA).

Mr. Walter Long informed Mr. Whitty, in the House of Commons on July 9, that he has received inquiries from individuals in regard to the Medical and Dentists' Registration Amending Ordinance (Grenada), and he has deferred consideration to enable them to make representations, but none had been received. The provisions of the Ordinance will be carefully considered.

THE METRIC SYSTEM.

Our Parliamentary correspondent learns that the Committee presided over by Lord Balfour of Burleigh, which has been considering a number of questions relating to commercial and industrial policy after the war, is likely to report against the adoption of the metric system. The report will be ready for presentation to the Government in the course of the ensuing autumn.

MANIPULATIVE SURGERY.

MANIPULATIVE SURGERY.

Mr. Ian Macpherson announced on July 9 that the Law Officers find/themselves generally in agreement with the opinion of Sir J. Simon, K.C., Mr. J. G. Butcher, K.C., and Mr. E. M. Pollock, K.C. (to whom the legal aspect of the question of the employment of manipulative surgeons and osteopaths was referred), and are of opinion that, subject to conditions, the War Office may lawfully take certain action. They have advised, however, that the opinion of the General Medical Council should be taken before orders are given with a view to that action. are given with a view to that action.

SUGAR FOR LEMONADE.

In the House of Commons on July 10, Sir J. T. Agg-Gardner, M.P., asked the Food Controller's representative whether he is aware that while the approximate amount of sugar used in the manufacture of 100 gals. of ginger-beer or lemonade is 150 lb., the amount used in the manufacture of 100 gals. of light ale, of 18 lb. gravity, rarely exceeds 25 lb. 25 lb.

The Parliamentary Secretary replied that the statement is approximately correct as regards light ale. He understands that the maximum amount of sugar now used in the manufacture of 100 gals, of ginger-beer or lemonade is about 80 lb., and not 150 lb. The amount of sugar that may be used for purposes of manufacture is 25 per cent. of that so used in 1915. This restriction applies equally to makers of ginger-beer, lemonade, and other manufactures.

PROFITING IS FAIR RECOMPENSE for services rendered, either in production or distribution; profiteering is an extravagant recompense given for services rendered. I believe that unfair in peace. In war it is an outrage.—Mr. Lloyd George at Dundee.

#### Military Tribunals' Decisions.

SINCE our last issue the following decisions have been

Burnley.—The conditional exemption of an unqualified assistant was withdrawn. Of three qualified chemists who applied two are not to be called up before July 31 and the other was granted exemption till August 31.

Calme.—Mr. J. Peacock, chemists' manager and Insurance dispenser, was exempted till December 15.

Deptend.—W. A. Wayland & Co., Ltd., manufacturing chemists, sought to retain the services of their secretary, Mr. W. C. Relph. The firm had two men of military age, both highly necessary to the business, and the finding of the Tribunal would decide if one of the two could be retained. The other man, who was in a lower medical category than Mr. Relph, was an analytical chemist and bacteriologist, and he had placed himself at the disposal of the Director of National Service. The firm felt that they were entitled to one man, as almost their whole output was for a Government Department. Exemption for four months was granted without dissent.

Dewsbury.—The case of Mr. Richard Moss, analytical chemist (sole partner in the firm of Rose & Co., manufacturing chemists and druggists, Westgate), was adjourned for three months.

DUNDEE.—The applications for further exemption of Mr. D. H. Wilson and Mr. D. K. Baxter, managers to Mr. Joseph Williamson, Fh.C., Albert Street, Dundee, were

IVER (BUCKS).-William Rayner, a dispenser, Iver, asked

for conditional exemption, and it was granted so long as he remained in his present occupation.

Kent (West).—The appeal by Mr. R. A. Hudson, chemist's assistant (now posted as dispenser in the R.A.M.C.), was dismissed.

KINETON.—Exemption was granted to Geoffrey Bancroft, pharmaceutical student and assistant to his mother, who owns a pharmacy

LEITH.—Conditional exemption was granted to six chemists, one is not to be called up till July 31, and two others were exempted till November 30.

London (City).—Exemption until October 1 was granted to a traveller for a firm whose business it is to collect beeswax for the Holy Synod of the Russian Orthodox Church, the wax being essential for the making of ecclesiastical candles.

siastical candles.

MALVERN.—Mr. John Need, chemist and druggist, Malvern, appealed for his assistant, Mr. Horace W. Doughty, who had been passed for general service. Temporary exemption until August 12 was granted, subject to substitution.—Mr. H. L. Bryant, chemist and druggist, appealed for by Mr. Maunder, was refused exemption.

Newcastle-under-Lyne.—Alderman C. J. Wain, Ph.C., secured exemption till the end of August for his assistant. Newport.—Mr. D. F. Ritchie, chemist and druggist, appealed for his assistant Ernest B. Dabell, who was exempted till September 15.

RISHTON.—Mr. J. H. Smith and Mr. R. Entwistle, dispensing chemists, were further exempted until September 30.

ber 30.

Rochdalf.—Mr. S. Relph, pharmacist, manager for Waller & Riley, was exempted till September 30.

Rochdster.—Harold Benjamin Burr, a conscientious objector, asked for non-combatant service. He is a dispenser with Octor & Green Ltd., chemists and druggists, Strood. with Otler & Green, Ltd. chemists and druggists, Strood. He was given three months' exemption conditional on his

remaining in the same employ.

Sevenoaks.—Mr. A. W. Pain, chemist and druggist, received four months' exemption.

Sheffield.—The Military Representative has appealed against the exemption of W. L. Gardner, dispenser, until September 30.

September 30.

SLOUGH.—Mr. W. Wigglesworth, chemist and druggist, Slough, applied on behalf of Edwin Ray Wells, chemist's assistant and dispenser under the National Insurance Act. He stated that the circumstances were exactly the same as when he last applied in December, but he had been unable to get another assistant. Temporary exemption was granted for two months, conditional on joining Section B of the Volunteers.

SOUTHWARK.—Mr. J. A. Gatchouse, chemists' assistant.

of the Volunteers.

SOUTHWARK.—Mr. J. A. Gatchouse, chemists' assistant, employed by Boots Cash Chemists, Ltd., applied for exemption, and was granted two months' final.—Mr. W. T. Perrins, who claimed exemption as an Insurance dispenser and a manufacturer of surgical instruments and appliances for Stevens & Co., Borough High Street, was granted two months' final exemption.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of. the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values 25 goods, as also have rail way carriage, freights, cartage, and other charges. The foregoing an l other incidental cutlays prevent retail buyers purchasing at the market prices quoted

42 Cannon Street, E.C. 4, July 12, 5.30 p.m.

Business this week has been on a smaller scale all round, BUSINESS this week has been on a smaller scale all round, with few interesting features to record. Among the fine chemical group, higher prices have been more prevalent for aspirin, following the advance in salicylates. Vanillin is again higher in sympathy with clove oil, which has risen sharply. Commarin is also dearer. Citric and tartaric acids are easier, and there is a slightly weaker feeling in acetanilide, hexamine, and cthyl salicylate. Bromides have been in fair demand at well-maintained prices, with supplies not too plentiful. Among drugs and essential oils, ergot and Ivopodium have a firmer tendency. American ergot and lycopodium have a firmer tendency. American peppermint oil in several quarters is now established on a higher basis, including the bottled brand, but the demand is poor

Higher	Firmer	Easier	Lower
Aspirin Clove oil Cloves Coumarin Peppermint oil (Amer.) Thymol Vanillin	Cream of tartar Ergot Lycopodium Salol Turpentine	Acetanilide Benzoates Citric acid Ethyl salicylate Hexamine Tartaric acid	Quinine etbyl carb.

Cablegram.

New York, July 12.—Business in drugs is dull. Menthol has been reduced by 10c. per lb. to \$3.00 per lb., and Cartagena ipecacuanha has been advanced by 5c. to \$2.35

ACETANILIDE is rather slow of sale, and until stocks have been reduced there is little likelihood of prices improving;

from 2s. 11d. to 3s. per lb. are current values.

ACETIC ANHYDRIDE is offered at about 9s. 6d. per lb. for spot supplies.

AMIDOPYRIN continues rather scarce and prices tending upwards at about 70s. net, as expected supplies were not forthcoming.

AMMON. ICHTHOSULPHONATE.—Prices vary widely, as does the quality, from 2s. 6d. to 3s. 11d. per lb. being quoted. ANISE OIL, STAR.—The spot price of "Red Ship" remains at 3s. 6d. per lb., and to arrive 3s. 6d. c.i.f. is also quoted. ASPIRIN shows a slight improvement, and 14s. 3d. per lb. now seems to be the lowest for B.P. quality, with an occasional odd imported parcel of foreign make offering at less. at less.

Belladonna-root is still selling at from 5s. 9d. to 6s.

BELLADONNA-ROOT Is still selling at from 5s. 3a. to 6s. per lb. for Indian on the spot.

BENZOATES.—Soda benzoate on the spot is offered at from 23s. 6d. to 24s. per lb., and benzoic acid at from 28s. to 29s.

BISMUTH SALTS are still in good demand, but makers are somewhat behind in their deliveries. The nominal quotations for B.P. subnitrate are from 10s. 10d. to 11s. 3d. and carbonate 12s. to 12s. 5d. net.

CAMPHOR.—Over 1,400 cases, mostly refined, have arrived in London this week. but they go into firm and few hands.

in London this week, but they go into firm and few hands. The spot price of Japanese 2½-lb. slabs is 3s, 3d. The exports from Japan during April amounted to 171,100 kin, valued at 301,056 yen. During the four months ended April 30 the figures were:

1916 1,817,445 1,659,585 1917 1915 ... 1,215,334 1.042,841 1,643,121 Yen ... 1,051,649

The destinations w	ere	as follows:		
		1915	1916	1917
		Kin	Kin	Kin
British India		430,657	530,416	158,303
Asiatic Russia		59,967	63,568	_
Great Britain	•••	151,618	497,688	46,463
France		239,878	167,298	<u> </u>
United States		195,706	477,022	798,880
Australia		81,025	22,140	1,465
Other countries		56,483	59,3 <b>13</b>	37,730
				·
		1,215,334	1,817,445	1,042,841

CAMPHOR OIL.—Market is still bare, and for a parcel of white Japanese afloat 75s. per cwt. c.i.f. is quoted; a small quantity of brown on the spot can be had at 90s.

CASCARA SAGRADA.—As will be seen from the figures given below, stocks are comparatively small, and that applies to the demand. Sellers quote from 105s. to 110s. per cwt., according to age and holder. The landings during June were 19 tons, and the deliveries 2 tons, leaving a stock of 61 tons, against 97 tons at the end of June 1916.

CHLORAL HYDRATE in bond is offered at from 8s. to 8s. 3d. ner lb. net.

CINDRAL HYDRATE in bond is offered at from 5s. to 5s. 3a. per lb. net.

CINCHONA.—The tender to be held at Amsterdam on Thursday, July 19, will consist of 11,950 packages, weighing 903,690 kilos. Java manufacturing-bark, with a quinine-content of 54,451 kilos. The average percentage is 6.03. At the auction to be held on July 20, 1,108 packages (615 bales and 493 cases) will be offered, weighing 67,603 kilos., with a quinine-content of 1,641 kilos.

Currete Actor is easier at from 3s. 3d. to 3s. 4d. per lb. on

CITRIC ACID is easier at from 3s. 3d. to 3s. 4d. per lb. on

CITRIC ACID is easier at from 3s. 3d. to 3s. 4d. per 1b. on the spot.

CLOVE OIL has had a further sharp advance of about 9d. per 1b., distillers quoting 8s. 6d. per 1b.

CLOVES have been in fair demand at advancing prices, Zanzibar having been sold at from 1s. 1½d. to 1s. 3½d. per 1b. on the spot. The landings during the week ending July 7 were 1,157 bales, and the deliveries 1,179 bales, the stock being 14,070 bales, against 21,138 bales in 1916 and 8,238 bales in 1915.

COCAINE has been in fair demand for home trade, hydro-

COCAINE has been in fair definant for nome trade, hydro-chloride selling at about 27s. 6d. per oz.

Cop-liver Oil.—Our Bergen correspondent writes on July 2 that the final report of the Finmarken cod-fishing has just appeared, showing a catch for this district of only 6.3 millions, against 9.9 millions in 1916, 16 millions in 1915, 25.6 millions in 1914, 34.8 millions in 1913, and 36.7 millions in 1912. The total catch of cod for all the Norwegian cod-fisheries to date was as follows:

1913 1914 1917 1915 1916 1912 C.l.o. (hect.) ... 76,20J 48,300 57,200 52,900 Liver for "raw" 51.4 60,100 37,100 oils (hect.) ... 34,000 13,100 12,600 8,900 5,400 6,800

The fat liver and the high yield of oil this year has to some extent counter-balanced the poor fishing. The stocks of oil are, however, extremely small. On the spot (London) finest medicinal Norwegian oil is offered at 425s. to 430s. per barrel, according to holder, with small stocks; the value of non-freezing Newfoundland is about 15s. 6d. per gal.

COUMARIN.—A parcel afloat is offered at 70s. per lb., and on the spot 75s. is asked.

CREAM OF TARTAR continues extremely scarce, and prices are nominal at 245s. for 98 per cent., and 247s. 6d. for 99 to 100 per cent.; sales for September-October shipment have been made at 240s. c.i.f. net.

Ersom Salt.—Spot parcels of druggists' quality are sell-

Ersom Salt.—Spot parcels of druggists' quality are selling at from 22l. per ton and upwards.

Ergor has been in more demand, with sales of sound Russian at 2s. per lb. net on the spot, and Portuguese at 2s. 2d., with 2s. 3d. asked.

ETHYL SALICYLATE is easier at from 4s. 3d. per lb. net on

FORMALDEHYDE.—In view of the prices asked in U.S.A. and the high freights, the firmer quotations of 125s. to 130s.

and the high freights, the firmer quotations of 123s. to 130s. per cwt. are prevalent.

GUAIACOL CARB. is offered at from 130s. to 135s. per lb. net, according to seller.

HELIOTROPIN has sellers at 30s. per lb. net on spot.

HEXMINE has sellers at from 3s. 6d. to 3s. 9d. per lb. net.

HYDROQUINONE is offered at from 12s. 3d. to 12s. 6d.

Per Ib. net on spot.

IPECACUANHA.—The landings in London during June were:
Matto Grosso 82 (62), Minas 25 (22), Cartagena 3 (3), E.I.
nil (2); the stocks on June 30, 1917, were: Matto Grosso
479 (359), Minas 6 (5). Cartagena 10 (162), and E.I. 86 (64).
The figures in parentheses are those for June 1916.

LEMONGRASS OIL.—Cochin is firm at 3½d, per oz. on the

LIME OIL.—West Indian distilled is quoted at 8s. 6d. and

LIME OIL.—West Indian distilled is quoted at 8s. 6d. and hand pressed at 16s. per lb.

Liquorice-Juice.—Sales of stick on the spot are reported up to 290s. per cwt., and Italian and/or Spanish block at up to 230s. to arrive.

Lycopodium.—Stocks having been reduced on spot, prices are tending firmer at from 4s. 9d. to 5s. per lb. as to curriet.

MENTHOL.—Small spot sales have been made at about 10s. 6d. per lb. on the spot. The exports from Japan during April amounted to 19,240 kin, valued at 125,851 yen. During the four months ended April 30 the exports were:

Kin Yen	1915 154,614 847,952		1916 175,041 101,746	1917 90,196 603,119
The destinations	were as	follows	:	
		1915	1916	1917
		Kin	$_{ m Kin}$	Kin
British India		11,267	5,738	3,319
Great Britain	• •••	36,740	82,533	15,656
France		28,094	30,552	1,361
United States		62,019	49,710	64,448
Other countries	•••	16,494	6,508	5,412
Kin	1	L54,614	175,041	90,196

METHYL SALICYLATE is obtainable at 5s. 3d. net in several

quarters.

MINT OIL.—The experts from Japan during April were 32,121 kin, valued at 65,614 yen, and for the four months ended April 30 they were:

			1915	1916	1917
Kin	•••	•••	153,129	177,743	66,106
Yen	•••	•••	298,816	410,277	146,537

OLIVE OIL.—We understand that the exportation from OLIVE UIL.—We understand that the exportation from Spain has been prohibited. Meanwhile spot stocks of all kinds are extremely small, and for genuine eating-oils from 12s. 6d. to 15s. per gal. is quoted in small lots.

OPIUM is firm and unchanged, good testing Persian offering on the spot at 44s. per lb., with supplies of other descriptions infinitesimal.

PEPPERMINT OIL.—Spot prices are nominally dearer for American at from 13s. 3d. to 13s. 6d. net, and at 12s. 9d. c. and f. forward. Demand, however, is extremely poor in spite of the advance. H.G.H. is 17s. 6d. to 18s. Phenacetin has sellers at from 82s. 6d. to 85s. per lb.

net on spot.

PHENAZONE is selling at from 55s. to 60s. per lb. It is difficult to obtain supplies from France, and, although the recent export-taxes on these fine chemicals were abolished, the granting of permits to export is exceedingly restricted.

Pilocarpine.—Hydrochloride is offered at 27s. 6d, and

nitrate at 25s. per oz. net.
POTASH IODIDE.—The exports from Japan during April amounted to 17,810 kin, valued at 115,257 yen, and during the four months ended April 30 the exports were:

	- 0		1915	1916	1917
Kin		•••	62,050	60,076	45,598
Yen			460,132	44 <b>3</b> ,8 <b>9</b> 7	286,565

Of crude *iodine* the exports in April were 5,515 kin, valued at 46,704 yen, and for the four months the figures

POTASH PERMANGANATE.-From 14s. 6d. to 15s. per lb. are current values, but the quantities available are not sufficient to make a market.

QUASSIA.-Good bold chips offer at 371. 10s. per ton on

the spot.

QUININE continues a very restricted market so far as re-QUINISE continues a very restricted market so far as regards second-hands, who report a small business at 2s. 8d. to 2s. 8½d. per oz. for sulphate. Makers are still booking orders for September delivery, but supplies for this position are limited. A large quantity of quinine has arrived in the U.S.A. direct from Java and the Dutch factories.

SACCHARIN.—Only retail lots are offered, and these command from 350s. to 340s. per lb.; July shipment from U.S.A. in offered to 340s.

U.S.A. is offered at 310s.

SAFROL is quoted at from 2s. 3d. to 2s. 6d. per lb. on the

SAFROL is quoted at from 28. 3d. to 28. 0d. per 16. on the spot, according to seller.

SALICYLATES.—American makers are well sold for the next two or three months, and, unless better supplies are forthcoming from English producers of salicylic acid, it is difficult to see how the upward movement can be stopped; from 6s. 9d. to 7s. remain current values. Sodium salicylate continues extremely scarce, and is fully worth 8s. 6d.

SARSAPARILLA.—No arrivals of grey Jamaica or Lima have taken place. Red Native has been sold up to 1s, 11d., and Mexican is 1s. 5d.

Mexican is 18. 5a.

Sassafras Oil.—American natural is offered at from 5s. 10d. to 4s. per lb. net, as to seller.

Senna.—Fair sales of new-crop Alexandrian pods have been made at from 5s. 9d. to 5s.  $10\frac{1}{2}d$ . for good pale green, with 4s. now asked for this quality, medium offering at 5s. 9d. The medium grades of Tinnevelly leaf have been selling at about  $5\frac{1}{2}d$ . for fair.

Shellac has been quiet at about steady prices, usual

SHELLAC has been quiet at about steady prices, usual standard TN Orange quality offering at 208s, to 210s, per cwt. on the spot.

SQUILL.—Fair white is offered at 62s. 6d. per cwt. on the

Spot.

TARTARIC ACID is easier at from 2s. 11d. to 3s. per lb.

TERPINEOL is offered at from 2s. 6d. to 2s. 9d. per lb. net on the spot as to quantity.

THYMOL is rather scarce on spot, and the value is about 47s. 6d. to 50s. per lb.

TURPENTINE has been in active demand at advancing prices, closing to-day at 56s. per cwt. for American on

Vanillin, in sympathy with clove oil, is again firmer, with sales up to 43s., and 45s. asked.

#### German Drug-markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of June 13:

AMYL ALCOHOL and AMYL ACETATE have considerably advanced. Pure amyl alcohol is m.635 per 100 kilos., purest for the examination of milk is m.685 per 100 kilos., and technically pure m.850 per 100 kilos.

Anise.—Spanish and Russian is very scarce, with only

small lots offered from second-hand at m.600 to m.620 per 100 kilos. There is a possibility that imports will take place from Bulgaria shortly at slightly lower prices than

place from Bulgaria shortly at slightly lower prices than m.535 per 100 kilos.

Borax and Boric Acid are very scarce. Makers cannot enter upon contracts, and even second- and third-hand stocks appear to be exhausted.

Citric and Tartaric Acids remain in active demand, although prices are extraordinarily high. Prompt delivery is not to be had, and even second-hand stocks appear to be cleared. The actual prices vary between m.41 to m.42 per kilo. for citric crystals; the prices for tartaric crystals vary between m.38 and m.39, and from m.39 to m.40 per kilo. for powder.

CLOVES (ZANZIBAR) have advanced further in consequence of an increasing scarcity. Actual prices are from m.21.25 to m.21.75 per kilo., and "spent" are offered at from m.3 to m.3.25 per kilo.

COLLODION has advanced by m.35 per 100 kilos, on account of the high spirit-prices. Collodion D.A.B. V. is m.300.

COLOCYNTH has been offered in larger quantities, and

COLOGYNTH has been offered in larger quantities, and prices are slightly lower; selected, without loose seed, is quoted at from m.200 to m.210 per 100 kilos., and natural, with not more than 25 per cent of seed, at from m.155 to m.165 per 100 kilos.

m.105 per 100 kilos.

COPAIBA.—Only small quantities of medicinal Maracaibo are available in Germany, for which m.900 to m.925 per 100 kilos. is asked; Bahia for technical purposes is quoted at from m.825 to m.850 per 100 kilos., Para at from m.850 to m.875, East Indian filtered at from m.825 to m.850, and filtered African at from m.875 to m.900 per 100 kilos.

Frangula-bark is in active demand, and stocks of old are diminishing rapidly. Prices have advanced, and whole is from m.95 to m.100 per 100 kilos.
Gluose is quoted at from m.450 to m.465 per 100 kilos.
GUM Acacla is not obtainable in "free" trade, all stocks being commandeered.

LAUREL-LEAVES are in good demand and m.240 is willingly

Magnes. Carb. is very scarce and badly wanted. Makers are quite unable to meet the demand on account of scarcity of raw material. First white powdered is m.125 per 100 kilos.

kilos.

Naphthaline is asked for in large quantities, but is only obtainable through the "Kriegschemikalien-Aktiengesellschaft" and the Secretary of the Navy Department.

Olis (Fixed).—The War Committee charged with the distribution of fixed oils and fats is to pay m.70 per 100 kilos. for the 1917 crop of rapeseed; for poppyseed m.100, for linseed m.59, for hempseed m.47, for sunflowerseed m.55, and for mustard-seed m.59.

Olis (Mineral).—Paraffin is in active demand in "free" trade, but is offered in very small lots. The price of brown paraffin is about m.650 per 100 kilos., and that of black from m.550 to m.560. Ozokerite is offered in small quantities at about m.4.50 per kilo.

quantities at about m.4.50 per kilo.

PYROGALLIC ACID.—Makers have been obliged to advance the price by m.10 per kilo. because of scarcity and high prices of galls, etc. Resublimed is m.31 to m.32 per kilo. now, and only very small quantities can be had.

QUILLMA is much dearer at from m.875 to m.975 per 100 kilos. for cut, and prices are expected to advance further.

SENNA is quoted at very irregular prices, and sellers in neutral countries offer to Germany at very high values. Tinnevelly is from m.675 to m.700 per 100 kilos., according to quantity,

to quantity.

Soda Sulphate.—A new order relating to trading in sulphate of soda, which came into force on July 1, permits the disposal of sulphate (calcined and crystallised Glauber's salts) only by consent of the Central Office.

Turpentine and Rosin.—Free trading is very limited. Here and there 440m. per 100 kilos, was quoted for Swedish oil of turpentine, although no good results have been obtained from it. Oil-of-turpentine substitute was much sought after, but there were very few offers. There were, however, many offers of benzol, which is largely used as a solvent, at unusually high prices. Offers for delivery of artificial rosin attracted much attention in the home market, and the execution of many inquiries had to be postponed. About 165m. per 100 kilos, was asked for "springharte" goods, free on rail at South German stations.

Arrivals of Chemicals, Drugs, etc.

THE following are among the arrivals at the Ports of London and Liverpool during the period July 3 to 9 inclusive:

To London. Acetanilide, 17 pkgs. Acetic acid, 162 cbys. 10 brls.

Alumina hyd., 18 brls. Ammon. molybd., 6 pkgs. 10 cans pkgs. 10 cans
Antim. reg., 50 tons
Argol, 802 bgs.
Arsenic, 200 cwt.
Asthma-cure, 35 bxs.
Bromides: potash, 5 cs.
Calcium lactate, 10 cs.
Camphor, 1,402 cs.
Cassin, 8002.
Cinchona, 718 bls.
Cocaleaves, 20 bls.
Cocculus indicus, 100
bgs.

bgs. Cream of tartar, 100 pkgs.

pkgs.
Cubebs, 96 bgs.
Cutblefish-bone, 1801.
Dential goods, 1,1441.
Drugs, various, 8 cs.
171.; herbs, dried,
65 bls. 5 cs.
Dyestuffis, unrated, 82
pkgs. 271 cks.; hematine cryst., 7 brls.;
indigo, 65 chts.;
myrabolanext., 4,999
pkgs. 2,000 pockets;
quebracho-logs, 1,155
tons; tanners' bark,
283 tons

283 tons

283 tons Egg-yolk, 4,947l. Galls, 3,950l. Gelatin, 869l. Gentian powder, 30 bls. Glycerin, dist., 9,983l. Gums (ewt.): acacia, 903; copal, 723. olibanum, 838; tra-gacanth, 662

gacanta, 662
Heilotropin, 1 cs.
Henbanc, 16 bls.
Herbal tablets, 225i.
Iron lactate, 10 cs.
Isinglass, 25 cs.
Kola, 24 cwt.
Lead acctate, 13 brls.
Loofahs, 37i.
Methyi alcohol, 13,691
gals.

Milk-sugar, 80 cs. 150 Nuts and kcrnels(cwt.):

copra, 10,420; palm-kernels, 40,190 Nux vomica, 128 bgs. Ointment, 1,2027.

Oils, essential, 445 cs. 5 pkgs. 28 drms.; anise, star, 150 cs.; piue, 7251.; synthetic, 12 cbys. 10 cs.

12 cbys. 10 cs.
Oils, fixed: arachis,
5,276 cs. 110 clss.;
castor, 116 cs. 145
cks.; coconut. 207
pps.; fish, 1,000 cs.;
olive,unref.,217 tuns;
rape, 6,773 cs. 500
cks.; shark, 250 cs.;
syox-bean, 2,500 cs.;
sperm, 150 cs.; turpentine, 1,150 brls.;
wood, 5,4871.
Paratormsidehyde, 5 cs.
Perfumery, 3421.

Paratormsidehyde, 5 cs, Perfumery, 342*l*. Phenacetin, 10 cs. Phenazone, 5 cs. Plasters, surg., 52 cs. Potash fodide, 20 cs. Protan, 17 brls. Pyrogallic acid, 6 brls. Quinine, 127,910 oz. Quinine ethylcarb., 5 prels.

prels.

Quinne envicato., 5 prels.
Rluburb, 23 cs.
Rosin, 2,020 brls.
Sal hepatica, 4 cs.
Saltpetre, 22,156 cwt.
Seeds (bgs.): annatto,
6; coriander, 100;
cotton, 398; fenugreek, 13; lin, 12,679
Senna, 125 bls.
Serums, various, 9 cs.
Shellac, 410 cwt.
Soda tungstate, 6 cs.
Sponge, 145 bls.
Starches (cwt.): farina,
11,693; maize, 3,900;
potato flour, 3,124
Stearin pitch, 100 clss.
Sticklac, 365 cwt.
Theobemine soda sal.,

Theobromine soda sal.,

12 cs. Thorium nitrate, 6201. Turmeric, 400 bgs. Vacuum flasks, 238l. Vacitin Mass, 256.
Vanila, 36 cs.
Wax, paraffin, 270 cwt.
Waxes(bees' and veget.)
79 bgs. 457 cs. 4'cks.
Zinc oxide, 260 brls.
\*\*To Liverpool.\*\*

Acetate of lime, 1,656

bys.
Acetic acid, 422 brls.
15 cbys. 30 cks.
Argol, 347 bgs.
Bromides: ammon.
and potash, 100 cs.

Chemicals, unrated, 24 bris. 2 drms. 11 pkgs. 2 cs.

Cobalt oxide, 67 brls. Colemanite, 14,622 bgs. Cream of tartar, 25 cks. Dental goods, 1,241l.

Dental goods, 1,241.
Drugs, unrated, 9 cs. 2
brls. 13 bls. 78 pkgs.
Dyestnffs, unrated, 200
cs. 162 brls. 1 kg. 4
pkgs. 9 drms.; cutch,
850 cs. 2,000 bgs.;
gambier, 152 cks. 317
bgs. 77 cs.; logwood,
275 tons; logwood
ext., 494 cks.; tanning ext., 333 cks.
Formaldehyde, 91 brls.
Gum copal, 9 bgs.
Lactic acid, 140 cks.
Lacat actate, 39 cks. Lead acetate, 39 cks. Liquorice-juice, 5 cs.

Liquorice powder, 10

Liquorice powder, 10 bgs.
Liquorice-root, 18 bls.
Mineral white, 200 bgs.
140 sks.
Nuts and kernels; arachis, 29,821 bgs.; copra, 818 bgs.; Fernels, unrated. 1,015 bgs.; palm-kernels, bgs.; palm-kernels, 11,730 bgs. 280 tons Oils, essential, unrated,

11, 130 bgs. 280 tons oils, cessential, unrated, 1061. Oils, fixed: arachis, 2,500 cs. 295 cks.; palm, 1,660 cks.; wood, 206 cks.; turpentine, 500 brls. Pyrogall. acid, 9 cs. Rosin, 12,067 brls. 175 oks. 2,000 pkgs. Seeds (bgs.): custor, 84 cotton, 26,016; coriander, 7; fenucreek, 116; lin, 2,560 Soda acetate, 138 brls. Soda hypophos. 1 cs. Starches: 15,102 bgs. 150 brls.; farina, 700 bgs.

150 bris.; farma, 700 bgs.
Surgical instru., 167.
Tartaric acid, 40 bris.
Vaseline, 707 cs.
Wax, becs', 87 bgs. 1
pkg.
Wax, candellla, 96 bgs.
Wax, carnauba, 1,566
bcs. bes.

Wax, paraffin, 577 bgs. Wine-lees, 50l.

AMERICAN CANNABIS INDICA.—Mr. John Lorimer, 119 Finsbury Pavement, London, E.C., has received samples of cannabis indica grown by the Department of Agriculture of the United States Government on their plantations in North Carolina, and can offer at reasonable prices.



Mysore Santalwood.

Mysore Santalwood, Sir,—In reference to Mr. Chatterton's letter in the C. & D., June 30, p. 51, the distillation of santalwood oil from Mysore santalwood has been an industry in this country for many years, and those who, like ourselves, have been engaged in it oan testify to the fact that Germany had by no means anything approaching, or was there any prospect of that country obtaining, a monopoly in the manufacture; for the English distillers have been in the habit of distilling for the English distillers have been in the habit of distilling not only sufficient oil for the home trade, but also for exportation on a very large scale. As the oil distilled at home is, at any rate so far, finer than any oil distilled abroad, we look upon the action of the Mysore Government as a needless interference with a long-established and ever-increasing home industry.—Yours faithfully,

EVANS SONS LESCHER & WEBB, LTD.

E. A. WEBB, Director.

Proprietaries in Insurance Prescriptions.

SIR,—Your correspondent "M. P. S." (C. & D., July 7, p. 51) is surely labouring under a misapprehension when he speaks of a proprietary preparation "not allowed by the Commissioners." It is news, and doubtful at that, to the Commissioners." It is news, and doubtful at that, to learn that the Commissioners interfere in such matters; but I thought it was well known that some Insurance Committees do not consider that proprietary preparations are rightly included in the category of "proper and sufficient medicines." The prohibition of proprietaries originates, as a rule, with the Panel Committees, which in those areas where the doctors were out to secure the "floating sixpence" did their best, and in many cases successfully, to persuade their respective Insurance Committees to disallow proprietary preparations. I fear that the letter of "M. P. S." must be regarded as unconvincing on this point.

Yours faithfully,

ART. 5. (8/7.)

ART. 5.

The Supply of Copper Sulphate.

SIR,—May I be allowed to reply to Mr. Grimes upon the copper-sulphate question? To my knowledge many chemists, from a loyal point of view, are supplying still at 6½d. per 1b., though their stock has been bought at a considerably higher price than 50%. per ton. Why, however, should chemists be compelled to sell at a loss when the users of the commodity are making good profit out of their produce? Again, why can the Board of Agriculture supply the names of only two firms in a position to supply at 50% per ton, carriage forward? Other than these two, I can find no firm in England to take an order at a price approaching this quotation. If The Supply of Copper Sulphate. ward? Other than these two, I can find no firm an England to take an order at a price approaching this quotation. If it be necessary to subsidise wholesalers, the process might rationally be carried a step further and applied to retailers. I am more concerned with the concluding portion of his letter. Competition, I am given to understand, is healthy, but I have yet to learn, that the gentle art of cutting each other's throat is invigorating—at least this side of the water—even for chemists. It is just such a letter as Mr. Grimes's which weakens a reasonable and legitimate as Mr. Grimes's which weakens a reasonable and legitimate case, whether it be one asking for fair treatment for agricultural chemists, or an attempt to prove that remuneration on another vexed question is insufficient. From actual experience I know that official bodies lose no opportunity of quoting a chemist against himself when approached for the redress of what the majority think a grievance. There will be no exception in this case. Yours faithfully, 6 Chrisp Street, London, E. 14. C. GOODE.

The Elusive Balance-sheet.

SIR,—The letters of "Sigma," "Pelops," and Hugo Wolff all touch the weak spot in pharmaceutical politics of to-day but that of Mr. Wolff goes farther in outlining a remedy. Useless is it now to worry over omissions and commissions of the Council. The past must go; it is the future only that can count, and that future must bear the impress of progress. It is a bold step, the formation of such a party in pharmacy; but it cannot be denied. The absence of one, properly constituted and properly labelled, has been responsible for much happening that has been inimical to our best interests. This party will not run counter to the Society, but with it—in this way: it sees the weakness of the Council as at present constituted, and by strong endeavours to get seven real live, strong progressives elected next year the Society will benefit. By such means will there be a Council willing to do things other than turn down suggestions made for bettering our conditions—a Council that, having done things, will then

show us by the light of day how they have been done. Away once for all with all this humbug of fearing to let us know things lest someone else also should know! Are we not men out for our rights, and have we not entrusted the upholding of those rights to those we have elected? Then, if clean, above-board methods have been adopted (which none will doubt), why all this puerile secrecy? We are not children, to be put off with half-veiled excuses, but men with some sort of ideal—business or professional; and to see that ideal realised we are quite willing to pay, but are men made adopted. and to see that ideal realised we are quite wining to pay, but as men we also demand the right to see how our money is spent. A progressive party was never so needed as at present. Should it eventuate, I look for a big influx of men to its ranks—men tired of the old game of "bluff"; men out for regeneration. The aims of such party are by no means chimerical.

Yours faithfully,

Streetham Streatham. C. BREESE.

The Progressive Element.

Fig.—I think Mr. Hugo Wolff's zeal has outrun his discretion in regard to the "Script" and its relation to the self-entitled "Progressives." Though the "Script" has always been allied with the progressive movement, it should still be the medium for expression of the considered views of the members of the London and District Associations, Though reconstructed for financial reasons, it should still stand for forward advance on sane and moderate lines in pharmacy. Mr. Wolff simply states his own personal opinions, and perhaps somewhat hastily. Yours truly,

JOHN KEALL. Wandsworth, S.W.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Soft Paraffin.

"Re difficulty of 'X. Y. Z.' (91/19) with soft paraffin, mentioned in C. & D. of to-day's date. I had the same trouble until I used Chesebrough's vaseline, high meltingpoint 115° F., which is practically free from the defect."—G. H. Dawson (Southend-on-Sea).

The Supply of Halazone.

Referring to the note in the C. & D. regarding the supply of halazone by Burroughs Wellcome & Co., Boots, Ltd., inform us that Dr. Dakin and Dr. Dunham's article on "Halazone" appeared in the "British Medical Journal" on May 26, and within a week they placed halazone on the market and advertised it in the "British Medical Journal" on June 2.

The Chemist's Title.

The Chemist's Title.

Modern Athens (125/2) calls our attention to the following remarks by Sir W. A. Tilden, F.R.S., on the use by pharmacists of the title chemist in the preface of his recently published work, "Chemical Discovery and Invention in the Twentieth Century." Our correspondent thinks the tone somewhat ungenerous considering that Sir William obtained the first step in his scientific career in 1861 through a Jacob Bell scholarship of the Pharmaceutical Society, and subsequently passed the Minor and Major and acted as assistant to Professor Attfield at Bloomsbury Square:

s assistant to Professor Attheld at Bloomsbury Square:

In Germany the compounder of medicines is entitled "apotheker," while in France he is called "pharmacien." In the British Isles, however, the assumption of the title chemist and druggist for a century or more by the competitors of the apothecaries has become so completely established in the public mind that to speak of a chemist invariably implies, in common parlance, the person who compounds and sells medicines. And this custom has been ratified by the Act of Parliament (Pharmacy Act. who compounds and sells medicines. And this custom has been ratified by the Act of Parliament (Pharmacy Act, 1868) which secures to the members of the pharmaceutical body the exclusive right to the title "chemist and druggist" or "pharmaceutical chemist," according to their qualifications. It is not to be denied that a small number of pharmacists do actually possess such a knowledge of chemistry, as to qualify them to pursue chemical research, but this is not the essential part of their calling, and the anomaly lies in the fact that if Sir Humphry Davy himself were now living he could not legally call himself a chemist, his name not being on the pharmaceutical register. Chemistry has for centuries been assohimself a chemist, his name not being on the pharmaceutical register. Chemistry has for centuries been associated perhaps naturally, with medicine while Scheele, Rose, Liebig, Dumas, and Frankland received their earliest notions of chemistry in the druggist's shop. Chemistry has been gradually emancipated from these associations with enormous advantages to the progress of knowledge. of knowledge.

#### Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

W. E. R. (65/10) has an indentured apprentice who has completed one-third of his time. The youth is now required to join the Army; how does this affect the apprenticeship? [So far as we are aware, the point raised by "W. E. R." has not yet been decided by the Courts. Our own view is that, subject to the terms of the indentures and to any agreement come to between the parties, performance of the contract is merely suspended during the period the youth is serving in the Army, and will have to be resumed if he is discharged before the term of the apprenticeship comes to an end.] to an end.]

Sisama (66/33).—A and B are carrying on business in partnership. A also carries on a separate business alone. If A becomes bankrupt in respect of his separate business, are the creditors entitled to claim A's interest in the partnership? Can B be held liable to pay debts contracted by A privately or in carrying on his separate business? [If A becomes bankrupt in respect of his separate business, his share of the partnership assets will form part of his estate and be available to satisfy the claims of creditors. B is not liable in respect of debts contracted by A otherwise than in connection with the partnership business.] business.]

#### Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles per to publish supposed formulas for them.

J. B. (58/63).—Book on Tollet-Preparations.—The most complete collection of recipes for tollet-preparations is that contained in "Pharmaceutical Formulas." Upwards of 200 pages are devoted to the subjects, full working formulas being given.

Grantown-on-Spey (60/74).—The Methods of the Rat-Grantown-on-Spey (60/74).—The Methods of the Rat-Catcher are many and various. These depend on whether the rats are to be captured alive for training terriers or dead for their skins. In any event the first and last precept in rat-catching is to refrain from mixing the bait with the hands. Rats have such a keen sense of smell that they will avoid even an aromatic bait if it has been touched by a human hand. Oil of anise (rhodium is now too expensive) with roasted oatmeal makes an attractive bait either for a trap or, mixed with strychnine, arsenic, or carbonate or sulphate of barium, as a poison. The main point is not to touch the bait with the ungloved hand.

- H. J. P. (57/18).—(1) We must refer you to recent issues of the C. & D. for information about FLAVINE, beginning with an article in the Winter number, p. 102. (2) IGLODINE is a popular proprietary article largely used in the North of England as an antiseptic. We do not know its composition.
- A. E. S. (43/9).—Anæsthetics in Dentistry.—A useful pamphlet on "Local Analgesia" is published by Parke, Davis & Co. (Beak Street, London, W. 1.), who would, we think, send you a copy on request. Struthers' "Notes on Local Anæsthesia" (Green & Sons, Edinburgh) also gives much useful information on anæsthetics, but it deals mainly with surgery rather than tooth-extraction. For a list of books on mechanical dentistry see C. & D., May 13, 1916, p. 52.

Aspirant (65/22).—The Malt Restriction Order (C. & D., April 21, p. 34) renders the brewing of home-made beer out of the question; it is therefore unnecessary, at present, to furnish you with a description of the method by which beer is made.

- T. K. (54/1).—OLIVER'S SNUFF is a synonym for pulv. hellebori alb. (See "The Chemist's Dictionary of
- A. G. S. (54/13).—Spirit of Sulphur is a popular name for sulphurous acid.

Specks (54/2).—BOOKS ON OPTICS.—The series of optical books published by Mr. Lionel Laurance, Temple House, Temple Avenue, London, E.C., are much used now by optical students. The titles are "General and Practical Optics" and "Visual Optics and Sight-testing." They are 10s. 6d. each.

P. J. C. L. (57/60).—McQueen's Bookkeeping System is published by J. McQueen & Co., Moat Road, Leicester.

E. G. T. (63/71).—The Mange-cure is a proprietary article made by a New York veterinary surgeon, and so far as we are aware the composition has never been disclosed.

Dento (65/47).—Gelatin-mass for Duplicating Dental Plaster Casts:

Glue					25	parts
	•••	•••	•••	• • • •		
Gelatin			•••	•••	25	parts
Glycerin					35	parts
Water				•••		parts
	•••	•••	***	•••		
Olive oil	•••				20	parts

Soak the glue and gelatin in the water over-night, dissolve in a water-bath, then add the glycerin and olive oil. The directions for use are: Place the dry, talc-coated plaster model in the moulding-flask and pour the warm solution over it. Let it stand until set, then remove the cast from the gelatin duplicate.

H. A. E. (66/7).—ICE-CREAM POWDER:

Powdered starch	 	1 oz.
Powdered sugar	 	1 oz.
Essence of almonds	 	mx.
Essence of vanilla		mx.
Azo-orange dye	 	to colour
Mix and sift		

This quantity is sufficient for a pint of milk, with which it is mixed, brought to the boil, and when cold put in the

F. C. (67/42).—Jam-making.—The proportion of glucose to fruit in jam-making is as follows: Glucose (liquid) 1½ to 1½ part, fruit 1 part. If sugar is also employed the quantity to use is glucose 1 part, sugar 2 parts, fruit 3 parts. Solid glucose is not so suitable for this purpose, as it has a tendency to "seed" when the jam cools. Jams made with glucose keep perfectly, and do not candy as do jams made with sugar.

Amicus (71/15).—GLYCERIN SUBSTITUTE FOR INTERNAL USE. The simplest form of this is:

Pulv. tragac. ... ... 3ij. Alcohol (90-per-cent.) ... 5iv. Aq. chloroformi B.P. 1885 ad ... 3x.

This is a modification of mucilage of tragacanth, containing twice the amount of tragacanth and chloroform-water in place of distilled water. It has been suggested that a small quantity of saccharin would be an improvement. Mucilage of quince is also employed, but it should be borne in mind that both tragacanth and quince are very scarce now.

- B. J. T. (47/39).—The last edition of Quain's "Dictionary of Medicine" was published in 1902. There is nothing of the same class of a more recent date. Harmsworth's "Family Encyclopædia of Medicine," which was published in about thirty parts in 1914, might suit you.
- J. E. R. (67/61).—We have no formula for a glyccrinfree copying-graph. You will see a suggestion for such a composition in the C. & D., April 28, p. 50, but we have not heard that anyone has carried it out successfully.

#### Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1867

Extract from Annual Report of the United Society of Chemists and Druggists.

The most important event of the year is the proximate understanding now subsisting between the United Society and the Pharmaceutical Society upon the terms of a Bill for the incorporation of the trade; and the United Society may especially congratulate its members that whilst the contemplated Bill provides for the compulsory examination of all future dispensers, and the registration of all existing chemists and druggists, wishful to be members of the Pharmaceutical Society, with equality of position and privilege, and the right to nominate and be nominated upon the Council, this great boon—wisely conceded by the Pharmaceutical Council, after six years' advocacy by the United Society—is not purchased for the unenfranchised chemists and druggists by any servility or sacrifice, but is a glorious testimory to the principles and objects of this Society, and to the soundness of its policy, which permitted no obstacle to stand in the way of the incorporation of the trade. of the trade.

## HOMŒOPATHIC FRESH PLANT TINCTURES

E make a large number of fresh plant tinctures every season, and also import those made from non-indigenous plants. The following tinctures which are generally imported we can now supply made from fresh plants in our own laboratory.

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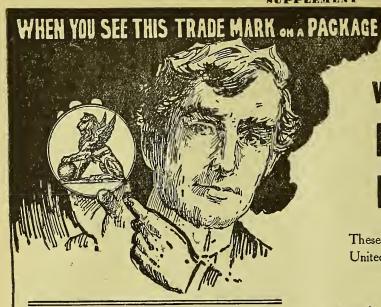
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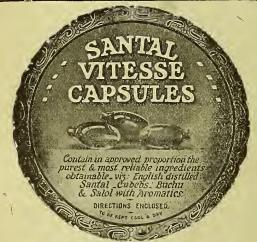
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(a) 15/8 lb.

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" Iodi Fort, B.P., 5 lbs. @ 7/4 lb.

" Morphinæ Acet. or Hydrochlor., P.B.,
6 lbs. @ 4/3 lb.

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" Plumbl Subacet., P.B., 7 lbs. @ 7d. lb.

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" Prud V\*gs. p.s. 1-7, 5 lbs. @ 2/2 lb.

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" Sennæ Dulc. 6 lbs. @ 1/9 lb.

" Sennæ pro Syr. 1-7, 6 lbs. @ 3/5 lb.

" Strychninæ Hyd. P.B., 6 lbs. @ 2/2 lb.

" Tolut. pro Syr. 1-7, 6 lbs. @ 1/11 lb.

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" Triuftrini, B.P., 1 lb. @ 7/3 lb.

Lithia Carb. P.B., 28 lbs. @ 6/- lb.; 7 lbs. @ 6/3 lb.; 1 lb. @ 6/6 lb.

" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/7 lb.; pulv., 3d. lb. extra.

Lycopodium, 7 lbs. @ 7/9 lb.

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Mag. Calc. Pond., 7 lbs. @ 3/3 lb.; 1 lb.
@ 3/6 lb.
Mag. Carb. Pond., 7 lbs. @ 11d. lb.
Mag. Carb. Levis., 1 cwt. @ ; 7 lbs. @ 1/3 lb.
Mag. Cit. Gran., 28 lbs. @ lb.; 6 lbs. @ 2/1 lb.
Mag. Sulph. fine druggists', B.P., 1 cwt. @ 30/6;
28 lbs. @ 4d. lb.
Manna, Flake, 14 lbs. @ 6/- lb.; 7 lbs. @ 6/2 lb.; 1 lb. @ 6/9 lb.

Menthol, dry white cryst., 60 lbs. @ 12/10 lb. 51bs. @ 13/3 lb. 医 4 eMist. Senne Comp., B.P., 20 lbs. @ 8d. lb.;

\*Mist. Sennæ Comp., B.P., 20 lbs. @ 8d. lb.; 6 lbs. @ 9d. lb.

Morphinæ Acet. Hydrochlos. of Sulph., Pulv. B.P., 25 oz. @ 15/6 oz.; 16 oz. @ 16/- oz.; 8 oz. @ 16/6 oz.; 1 oz. @ 17/- oz.; Pus. Præcip. Blmeconate of Tart., 1 oz. @ 20/6 os. Morphinæ Diacetyl., 4 oz. @ 30/- oz.; 1 os. @ 30/6 oz.; Hydrochlos., 6d. per oz. less. Myrrb, Gum, Englisb Ground, 28 lbs. @ 2/2 lb.; 7 lbs. @ 2/6 lb.

Maphthalene, Candles, 7 lbs. @ 9d. lb. Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 102/-cwt.; 7 lbs. @ 1/2 lb.

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Ol. Amygdal. Ang., B.P., 9 lbs. @ 3/0½ lb;
Ol. Aneshi Ang. B.P., 1 lb. @ 3/0 lb.
Ol. Aneshi Ang. B.P., 1 lb. @ 3/0 lb.
Ol. Aneshi Ang. B.P., 1 lb. @ 3/0 lb.
Ol. Anisl. E.I., 66 lbs. @ 3/8 lb.; 164 lbs. @ 4/lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.
Ol. Aurant., 12 lbs. @ 1/5 lb.; 1 lb. @ 4/8 lb.
Ol. Caiputt., B.P., 21 lb. @ 1/4 lb.
Ol. Caiputt., B.P., 21½ oz. bots. @ 4/9 lb.
Ol. Caiputt., B.P., 21½ oz. bots. @ 4/9 lb.
Ol. Caiputt., B.P., 21½ oz. bots. @ 4/9 lb.
Ol. Caryoph. Ang., B.P., 9 lbs. @ 8/6 lb.; 4½ lbs.
@ 8/10 lb.
Ol. Caryoph. Ang., B.P., 9 lbs. @ 8/6 lb.; 4½ lbs.
@ 8/10 lb.
Ol. Cassia, 16 lbs. @ 4/9 lb.; 6 lbs. @ 5/- lb.
Ol. Cinnam., 1 lb. @ 32/- lb.; 1 os. @ 2/3 os.
Ol. Citronellas, 9 lbs. @ 2/3 lb.
Ol. Coco Nucis, finest White, 80 lbs. @ 79/6
cwt.; 40 lbs. @ 81/6 cwt.
Ol. Eucalypt., P.B., 1 cwt. @ 2/6 lb.; 28 lbs. @
2/7 lb.; 9 lbs. @ 2/8 lb.
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bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turs.
1 lb. @ 15/- lb.; 4 ozs. @ 10/6 lb.
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Ol. Menth, Plp. English, 5 lbs. @ 56/- lb.; 1 lb.

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Ol. Pulegii B. P. 5 lbs. @ 6/6 lb.; 1 lb. @ 6/100
Ol. Ricini Alb. Opt. Medicinal, 40 lbs. @ 110/cwt.; 9 lbs. @ 1/1 lb.; for expost, 1 cwt. drums recommended.

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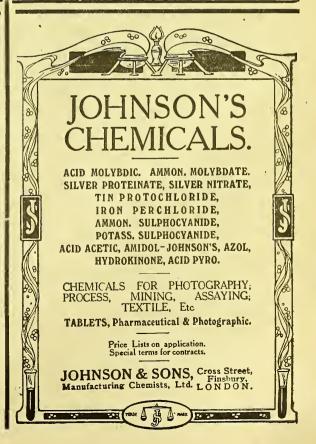
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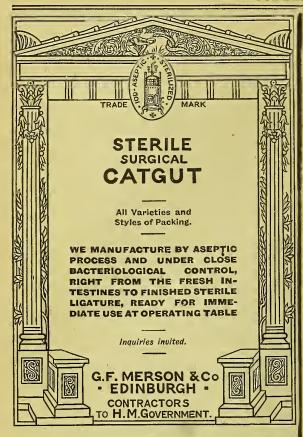
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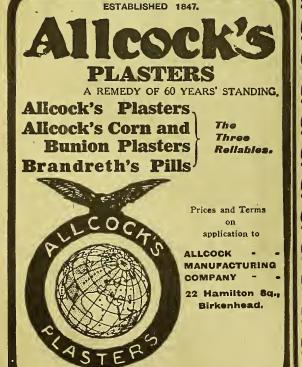
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Fig. 1194. Fig. 1194.—'The "EMPIKE." red India-rubber Air Cushion-19 20 in. Diameter 6 6 12 6 8 6 11 6 0 18×14 in.  $14 \times 10$ Fig. 1354.—Air Cushion, sateen covered, reeded Sizcs 6 Each 6 Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case, with clasp ...each super quality

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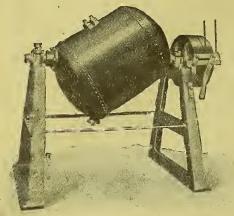
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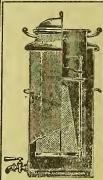
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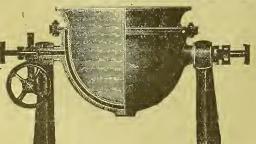


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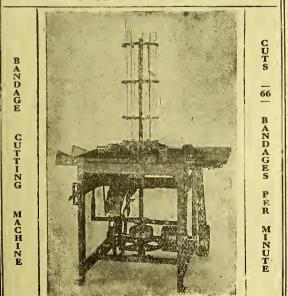
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1.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,500; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900.

2.—SOUTHEND-ON-SEA.—For immediate Sale, through death; good-class Business; returns last year over £800; plenty of scope for increase; well-appointed Pharmacy, with good house

attached; price £450 or valuation.

3.—SOUTH COAST.—Sound, unopposed Light Retail Business; returns under manager £600; plenty of scope for increase; rising town; low rent; modern fitted shop, fully stocked; price £375; strongly recommended.

strongly recommended.

4.—HERTS.—Good-class Light Country Retail, in best position of small market town; returns average £900; good profits; aplendid house; own property; price £400 cash.

5.—BATH.—High-class Dispensing Business; owner retiring; returns £800; good profits; fine position; plenty of scope; price for quick sale £350 or first reasonable offer.

6.—LONDON, N.—Genuine Cash Retail with N.H.I.; in same hends 24 years; now retiring; returns £800; net profit over £250; large, handsome shop; prominent corner position, and in younger hands would soon do £20 weekly; price £300 or valuation; half can remain.

7.—LONDON, S.W.—Profitable Cash Suburban Retail; entirely under manager; present returnsabetween £800 and £900; plenty of scope; rent £50, let off £26; well stocked; main-road position; price £20 and valuation, about £350; manager called up.

### STOCKTAKINGS.

Appointments for stocktakings and valuations should Se made early. Full particulars and terms sent on application. See page 90 of the C. & D. Diary, 1917.

MESSRS.

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### BUSINESSES FOR DISPOSAL (continued),

FOR immediate Disposal through ill-health, an old-established Agricultural and Family Business in a good market town in Lincolnshire; new front and modern fittings; returns about £1,500, leaving excellent profit. Apply "Business," e/o Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

FOR SALE, owing to illness, an old-established Pharmacy located near King's Cross Station, N.; splendid opening for a young Chemist starting, Apply, in first instance, to W. T. P., 72 Tremadoc Road, Clapham, S.W.

UNIQUE opportunity of purchasing high-class Cash Pharmacy situated in a fashionable West Coast health resort; good situation; price £300 or near offer; rent £27; proprietor called up. Apply W. S. Marshall, 16 Hoghton Street, Southport.

£45, FIXTURES and Fittings; Stock at valuation, about £50, to £60; new and saleable; selling owing to war; returns under Manager (unqualified), 1915 £500, 1916 £542; rent £35; nice house, recently decorated; healthy suburban district near Crystal Palace; suit elderly man. Reply "X." (15/22), Office of this Paper.

# FOR SALE.

FIXTURES (Mahogany) and Shop Rounds; suitable for Branch; any reasonable offer accepted. Apply, first instance, 15/390, Office of this Paper.

NEARLY new Mahogany Fixtures and Fittings, comprising Wall-onse, Bent-glass Counter-case, Dispensing Screen, Counter, other Glass-front Cases, Window Enclosure) and Shop Round, Nest of Drawers, Cash Register, etc., at a sacrifice, owner having to join up. 14/19, Office of this Paper.

OFFERS.—1 lb. Tinctures Cascarilla, Serpentary; 1 lb. Valerian, Guaiac Ammon.; 10 lb. Tartoric Acid Xtls.; few each B. and D. Sparklet Syphons; two quart Earthenware Inhalers, Maws' improved; 6 Hunyadi and Rubinat 25 Waters, half; 3 Sprudol Solts Carlsbad; 1 lb. Potassium Bichromate; 1 De Jongh's Codliver Oil; 8 oz. Liquid Santal Flav. Co. Evans; 1 lb. Gum Ammoniacum; 2 oz. Exalgiu; 1 oz. Amidol; 1 oz. Metol Hauff; 3 lb. Pulv. Myrrh; 8 oz. Zinc Valerian; 1 cwt. Black Pitch; 5 galls. Spirits Salts; 1 cach Pessary Moulds, 6-hole, 1 and 2 drams; 1 Suppository Mould, 6-hole, 15 grs. R. I. Eccles, Pharmaceutical Chemist, The Squarc, Athy.

REAL BARGAIN.—Second-hand National Cash Register going cheap; condition guaranteed; small machine. Write at once to F. Barnes, 12w Peabody Avenue, Pimlico, S.W. 1.

7 OZ. B.P. Phenazone Tabs., 5 gr., 20s.; 9 lb. Acid. Tart. XL, slightly soiled, 2s. 9d. lb.; 7 lb. Cetaceum, 5s. 9d.; 3 × 15 gr. Suppos. Moulds, 4s. each; 2 doz. Celluloid Eye Shades, 3s. 6d.; 5 lb. Cera Flav., 9s. 6d.; 4 lb. Pulv. Rhei., 6s.; 7 lb. Pulv. Marant Opt., 4s.; 8 oz. Bismuth Subgall, 5s.; 6 oz. Hyd. Iodid. Rub., 5s.; 2 × large Split Skins, super. qual., 10s.; 8 oz. Pulv. Ipecæ., 5s.; 2 oz. Ext. Opii. Sicc., 9s.; 4 oz. Yanilline, 9s.; 13½ oz. Menthol, 9s. 6d.; Kent's Gas Heat Cepper lined wood outside Drying Oven, Kent's Ice Safe, both 26 × 30 × 25, 44 each; Combinea Cabinet and Roll-top Dispensing Cabinet, as Maws', page 260, gas, water, and wash-up extra, cost £50, sell £10; National Cash Register, in use under 2 years, latest pattern, give receipt with each sale. £28; all good condition. B., Chemist, 97 Boro' High Street, S.E. 2.

# BUSINESSES WANTED.

WANTED, genuine Business by Pharmacist (ineligible), with convenient living accommodation; must bear investigation; net profit must at least equal a Manager's salary; all information treated confidentially; would consider Partnership. Send full particulars, balance-sheet, and photograph if evailable (will be returned), to Cæsar, Glenside, Oldcastle Road, Weymouth.

# AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A USTRALIA.—A Manufacturers' Representative in close touch with the trade throughout Australia is desirous of securing Agencies for respectable Houses handling General Chemical and Toilet Lines; first-class references can be furnished; Bankers, Commercial Banking Co. of Sydney. Lynton H. Barrington, Daky Telegraph Buildings, Sydney, N.S.W., Australia.

WANTED, by London Representative with sound connection and 22 years' experience representation of firms dealing in Chemicals, Pharmaceuticals, Proprietaries, Toilet Articlee, Druggist Sundries, etc., etc., on commission; excellent references; energetic and resourceful. Apply 75/39, Office of this Paper.

# PREMISES WANTED.

BUSINESS POSITION WANTED.

SHOP wanted, where there is a good opening for Chemist; South, and near coast preferred; small bonus offered. "Venture" (14/32), Office of this Paper.

# SITUATIONS OPEN.

38. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in me case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

### RETAIL.

A BERDARE.—Wanted, unqualified Chemist's Assistant; outdoors; lady or ineligible man; good knowledge of Dispensing; no Sunday duties; state age, wages, and references. Tudor-Williams, M.P.S., Aberdare.

BAKEWELL.—Wanted, qualified Manager for good-class Business; ineligible or over military age; hours easy and no Sunday duty. E. G. Carrington, Chemist, Bakewell.

BIRMINGHAM.—Dispenser (lady) required for Romsley Hill Sanatorium; board, residence, and laundry found. Apply, stating age, full experience, and salary required, Honorary Secretary, 45 Newhall Street, Birmingham.

BIRMINGHAM (Near).—Young lady Assistant required for progressive Chemists' business; one who has had previous experience with a Chemist preferred; state salary required and when at liberty. "Staff" (14/381), Office of this Paper.

BIRMINGHAM (Near).—Lady required, with Dispensing experience, for about 3 months; wages £2 weekly; one morning off each week, in addition to the usual half-holiday. Rex Allen, Chemist, West Bromwich.

BIRMINGHAM.—Assistant, lady or gentleman, full or part time, unqualified, required for good-class Dispensing and Photographic Business; no Sunday duty; outdoors. Apply, stating age, experience, and salary required, Marshall Bros., Chemists, Moseley.

BOLTON.—Wanted, reliable Assistant, ineligible, for good-class Light Retail and Dispensing; easy hours; two others kept; must be good Window-dresser; permanency and good prospects to right man; state salary, enclose references and photo if possible, which will be returned. Massey, Chemist, Bolton.

BOLTON.—Manager; qualified; ineligible; permanency; small Branch; near to Bolton. Apply to Waller & Riley, Ltd., Chemists, 19 Bradshawgate, Bolton.

BOURNEMOUTH.—Wanted, a lady Junior for a Light Retail and Dispensing business, who has had experience in good-class Dispensing; no Insurance Dispensing done. State age, experience, salary required (both indoors and out, say which preferred), enclose photo, if convenient, Cumber, Chemist, Winton, Bournemouth.

PRIGHTON.—Dispenser required for N.H.I. and middle-class Business; qualified or not qualified; indoor or outdoor; one used to Counter work and Manufacturing ordinary Preparations; state full particulars. Savage & Co., Pharmaceutical Chemists, Brighton.

PRIGHTON.—Outdoors; competent Assistant, mainly for Dispensing; hours 9 to 7.30, Wednesday 9 to 9, Thursday 9 to 1, alternate Sundays duty 9 to 2 and from 6 to 8. Apply, with full particulars, stating age, height, salary required, and enclose photo if possible, J. Colby & Co., 101 Western Road, Brighton.

BRISTOL.—Manager; qualified; exempt if of military age; Light Cash Retail in main thoroughfare; easily worked; short hours; no Sunday duty; living accommodation if necessary; most comfortable berth; every consideration given to the right man. Apply, stating salary required, age, references, enclose photo if possible, 15/23, Office of this Paper.

CHESHIRE.—Junior Assistant wanted at once, lady or gentleman, for Dispensing and Counter; an exceptional opportunity for lady with slight experience to further same. 9/36, Office of this Paper.

CROMER.—Assistant required, with practical knowledge of Photography (gaslight printing, enlarging); outdoors; a part-time worker might be accepted: Hoare, Chemist.

CROYDON.—Assistant wanted for General Retail and Dispensing; capable and reliable. Apply, stating experience, references, salary, etc., Barron, Chemist, 77 High Street, Croydon.

RITH.—Locum, qualified, outdoors, required for brisk Light
Retail and Dispensing; whole or part of 5 weeks commencing August 7th or later; close three nights at 7.30, Thursdays
at 1; no Sunday or night duty; good salary offered to capable
man; in reply, please state full particulars, enclosing photo if
possible (to be returned). Walter Reeson, 80 High Street, Erith,
Kent.

EXETER.—Competent Assistant; unqualified; either sex; goodclass Business experience or Hall certificate; references and usual particulars and salary required. Hinton Lake & Son, Ltd.

CLUUCESTER.—Qualified Assistant required in August to manage Branch Shop; ineligible for Army or over military age; comfortable house, with garden; a lady with Retail experience would be considered. Hargreaves & Co., 3 Barton Street, Gloucester.

GUILDFORD.—Assistant wanted for about two months; duties chiefly Dispensing; outdoors; very easy work and hours; lady or gentleman. Jeffries, Chemist, Guildford.

HAMPSTEAD HEATH.—Junior wanted for Dispensing business; lady or gentleman; time given for study if required; confortable berth. Kindly give full details of experience, age, salary, etc., to Herbert Williams, 31 Heath Street, Hampstead, N.W. 3.

LANCASHIRE.—A vacancy occurs at a well-known Pharmacy for smart young lady who has had good experience with a Chemist and is an efficient Dispenser; permanency; state salary required and when at liberty. Lancs " (14/383), Office of this Paper.

LONDON (POPLAR DISTRICT).—Young lady Assistant required for progressive Chemist's establishment; permanency; must have had some Counter and Dispensing experience. "Poplar" (14/380), Office of this Paper.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

ONDON (Finchley).—Lady Assistant wanted for Dispensing and Connter in good-class Light Retail business; hours 9.30 to 7.30; Thursdays 1 o'clock; no Sunday work. State age, height, experience, and salary required, with photo, to 15/38, Office of this Paper.

LONDON, N.-A Dispenser wanted for two weeks, commencing 28th July, by a firm of Doctors. Apply to Drs. C. B. and C., 124 Stroud Green Road, N. 4.

LONDON, S.E.—Wanted, in a Retail, Prescribing, and Dispensing business, an Assistant Manager; qualified or unqualified; indoors or outdoors. Apply, with full particulars, age, salary, and when disengaged, to D. U. Still, 9 The Village, Old Charlton.

TONDON, S.E.—Qualified Assistant; lady or gentleman; N.H.I. and ordinary Retail. Apply to Austin's, Ltd., 196/202 Bermondsey Street, S.E.

Light Retail Business; returns nearly £1,500; expenses low; this Business easily worked and would suit a lady Pharmacist; present owner can remain to give complete introduction if desired; would entertain Manager (either sex), with view to succession. Particulars from 3/29, Office of this Paper.

ONDON, S.W.—Lady Assistant required, with some Dispensing experience and good handwriting. Apply A. J. Phillips, 196 Cromwell Road, South Kensington, S.W.

LONDON, S.W.—Required at once, a capable Assistant (outdoors) for N.H.I., Counter, and Photographic trade. References, etc., to A. Owen, 260 Upper Tooting Road, S.W. 17.

I ONDON, S.W.-Wanted, an Assistant; ineligible for military service. Apply, with full particulars, to Amoore & Co., 175 Sloane Street, S.W. 1.

I ONDON, S.W.—Lady Assistant; a careful and accurate Dispenser, with some good-class Retail experience preferred; no N.H.L Prescription; salary to commence £2 7s. 6d. weekly; outdoors. State age, height, and send two recent references to Tennant's Pharmacy, 29 Sussex Place, S.W. 7. Telephone No.; 6173 Kensington.

ONDON, W.—Wholesale and Retail; wanted, immediately, lady Assistant for putting up varied Drug Orders; must have good Pharmaceutical experience; hours of business, 9 a.m. to 6 p.m. Apply, by letter, giving particulars of experience and salary required, to Hospitals and General Contract Co., Ltd., 19/35 Mortimer Street, W.

LONDON, W.—Outdoor Assistant wanted at the Dispensing Counter of a high-class Business; no N.H.I.; must have cerved a regular apprenticeship and be well recommended; hours 8.30 to 7, Wednesdays 8.30 to 1; duty every third night and every third Sunday. Apply, giving full particulars, to Mr. Lewis, Chemist, Ealing, W. 5.

ONDON, W.—Manager, qualified, reliable, and trustworthy, for good-class Pharmacy in West End (near Baker Street); good Salesman; about 45 to 50 preferred; permanency; in reply, state experience, references, and salary required. Goodall, 66 Lower Richmond Road, Putney.

MANCHESTER.—Qualified Manager wanted for Branch; Light Retail and small N.H.I. Dispensing; middle-class district. Apply, stating age, salary expected, and full particulars, to Cuttiford, Pharmacist, Langworthy. Road, Salford.

MANCHESTER.—Wanted, experienced Manager; rejected or over military age; Light Cash business; easily managed; salary and commission; to live either on or off premises; state full particulare, salary, when disengaged, and photograph if convenient. Apply S. M., 23 Park Road, Blackpool.

MANCHESTER.—Young lady, with some Counter and General experience, required for Chemist's establishment situate in working-class district; comfortable; permanency. "Manchester" (14/38), Office of this Paper.

MANCHESTER ROYAL INFIRMARY.—Assistant Pharmacist required; hours 8.50 to 6; half-day holiday weekly. Applications, stating age: experience (Hospital or otherwise), salary required, accompanied with two recent testimonials, to be addressed to the General Superintendent.

N.W.—ACTIVE and competent Assistant for good-class Dispensing and Counter work; outdoors; ineligible for military service; not much N.H.I. work; reasonable hours; please state experience, calary required, and if free. S. P. Sayers, 7 Brent Street, Hendon, N.W. 4.

NORTH WALES COAST:—Assistant or Junior, ineligible, male or female, wanted in Retail Dispensing and Photographic Chemist's. Full particulars to Williams, Medical Hall, Holyhead.

NOTTINGHAM.—In a high-class, Dispensing business, a qualified woman Pharmacist; an unqualified lady with good experience would be treated with. Sergeant, Pharmacist, Market Place.

NOTTINGHAM.—Young lady Assistant required shortly for Counter and Dispensing; some previous experience necessary; no Sunday duty; half-holiday weekly. State age, salary required, and give full particulars in first letter to A. Middleton & Son, Pharmacists, Nottingham.

S.W. -Outdoor Junior or part-time Assistant wanted at once much Insurance work; near several schools. Apply, with usual particulars, enclosing photo, R. Banbury, 186 Lavender Hill, S.W. 11.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmonth.

COUTH WALES.—Thoroughly reliable lady Assistant for Mixed business in colliery district; must be good Dispenser and Window-dresser; hours 9 to 8, Saturday 9, half-holiday Thursday; no Sunday duty; salary, according to experience, 30s. to 40s.; outdoors. Apply, giving full particulars first letter, to Francis, Chemist, New Tredegar.

SOUTHSEA.—Lady Assistant; Hall qualification; outdoors; good salary. Apply Arnold & Sons, Chemists, Southsea Pharmacy.

TUNBRIDGE WELLS:—Qualified Managing Assistant required; capable; able control; good Salesman essential; permanency; good-class Dispensing, N.H.I., and General Retail; substitute for son; 3 kept; state particulars, salary. Pearmund, 17 Calverley Road

WINDSOR.—Locum wanted for three weeks in August or early September for Light Retail and Dispensing business. Apply, stating salary (indoors or outdoors), with references, to R. W. Houfe, Pharmaceutical Chemist, Windsor.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (14/382), Office of this Paper.

A QUALIFIED Manager required for Branch; permanency; short hours; state full particulars and salary required. Brightside & Carbrook, Co-operative Society, Ltd., 164 Infirmary Road, Sheffield.

A SSISTANCE 'required (qualified), lady or gentleman; N.H.I.
Dispensing and Counter; temporary, permanent, or with view
to early succession. "Pharmacist," 281 Hackney Road, E. 2.

A SSISTANT (ineligible for military service), or lady Assistant used to Dispensing and Counter; comfortable berth; two kept; please state age, experience, salary (outdoors), and latest references. Bevan & Son, Pharmacists, Harwich, Essex.

A SSISTANT wanted (qualified) for Dispensing Counter; ineligible for Army or over military age; outdoors. Apply L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

A SSISTANT for Front Counter; with London experience preferred; outdoors; short hours. Apply E. C. Evans, Pharmacist, Whiteley, Ltd., Westbourne Grove, W. 2.

BRANCH Manager wanted at once; must be over military age or ineligible. Apply, personally or by letter, stating salary required, when disengaged, and enclosing recent photograph, to Parke's Drug Stores, Etd., 65 Harmood Street, N.W.

DISPENSER wanted, lady or gentleman, for small country Business; one willing to assist in shop preferred. Apply, with full particulars, to H. Wilson, Chemist, Standish, near Wigan.

DISPENSER; qualified; male or female; good salary to competent person. Honrs 8.45 to 6.30, Saturdays 1 o'clock. Apply Selfridge's, Oxford Street, W. 1.

DISPENSER-CHAUFFEUSE wanted by medical practitioner in a pleasant town about an honr's rnn from London; comfortable post; permanency. Apply, stating age, experience, salary required (outdoors), enclosing testimonials and references, to 14/39, Office of this Paper.

POWLER & CO., Pharmacentical Chemists, Redhill, Surrey, require an Assistant for Dispensing, etc.; must be ineligible or over military age; state salary required and all particulars; outdoors.

LADY, fully qualified, for Dispensing and Counter work in good-class Business at a South Coast health resort. Apply, stating wages, etc., with photograph if possible, to "Valois" (15/34), Office of this Paper.

MANAGER, lady or gentleman, for high-class Dispensing business; good salary offered. Apply 71 East Hill, S.W.18.

MANAGER, unqualified, for Branch; Outer London; practically sharing terms; outdoors; no Sunday work; no Dispensing, no Poisons; technical knowledge not so important as salesmanship, Window-dressing, and Business capabilities; comfortable permanent berth for right man. State definitely age, experience, and salary expected to 16/2, Office of this Paper.

MESSES. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Manager, age about 46, required immediately for Relief work; Yorkshire and Lancashire; permanency afterwards if satisfactory. "Relief" (14/384), Office of this Paper.

QUALIFIED Branch Manager, over military age, wanted immediately for good-class Dispensing and Retail business in West of England resort; living accommodation; splendid opportunity for Chemist giving up business or gentleman wishing to improve his position; every consideration; permanency. Full particulars to 15/15, Office of this Paper.

PEQUIRED, lady Counter Assistant, with experience in the selling of Perfumery and Drnggists' Sundries in ordinary demand; smart appearance; hours of work, approximately, 8.45 to 6.00ek, 1 o'clock Saturdays, no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Army and Navy Stores, 105 Victoria Street, S.W. 1.

SALESMAN and Dispenser wanted; unqualified; must be in-eligible or over military age. Apply, personally or by letter, stating salary required, when disengaged, and enclosing, if possible, recent photograph, to Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

TEMPORARY Assistant wanted for a few weeks from July 30; outdoors; light duties. H. J. Aubrey, The Cross, Worcester.

NQUALIFIED Senior Assistant, ineligible, for firm in the Midlands doing a good Light Retail and Photographic trade employing several assistants. State full particulars to "Z. 2" (14/29), Office of this Paper.

WANTED, an indoor Assistant; unqualified; ineligible for the Army; South of England; please state age and all usual particulars in first letter. Apply to "A. B. C." (10/31), Office

WANTED, for a good-class Pharmaceutical business, Surrey, an Assistant for Dispensing and General Retail; some Photographic experience useful; good home accommodation over business if desired; suit married man; must be ineligible or over military age; state full particulars and salary required. Apply 13/30, Office of this Paper.

WANTED, a Manager for shop in Market Place; hours 9 to 8, with time off for meals; good salary and commission. Apply 316 Commercial Road, E. 1.

WANTED, unqualified Locum, lady or gentleman, August 18th-September 1st. Full particulars and salary (outdoors) to S. S., 436 High Road, Streatham, S.W. 16.

WANTED, Assistant, lady or gentleman, for Dispensing and Eight Retail; outdoors; short hours; no Sunday duty. Apply; with usual particulars and salary required, to Gradidge, Pharmacist, Andover.

.WANTED at once, a young lady to put up Stock and Proprietary Articles. Apply, by letter, to John Atkins, Chemist, 109 Queen's Road, Bayswater.

WANTED, Senior Assistant (outdoors); must be ineligible; easy hours and no Sunday duty. Send full particulars, stating salary, references, etc., to E. R. Dixon, Chemist and Optician, 312 High Street, Lincoln.

WANTED, for three or four weeks about middle August or beginning September, experienced, unqualified Assistant for good-class Light Retail in South of England; must be well recommended. Full particulars and recent references to 13/6, Office of this Paper.

WANTED, Assistant (lady or gentleman) for 3 weeks, August 4th to 25th inclusive, to assist in Dispensing ohiefly; qualification not essential. State salary and previous experience to W. Parry-Jones, Pharmacist, Barnet.

WOMAN, qualified Minor, wented, about 30, well trained, for a good working-class Business; N.H.I. and General Counter; comfortable berth; give fullest particulars, salary required, etc.; replies treated in confidence. "North Staffordshire" (279/18), Office of this Paper.

WOMAN Pharmacist required as Locum for a fortnight before VV end of September. Apply, stating terms, to cist," 53 Roman Road, E. 3.

YOUNG lady Dispenser required for Electric Avenue, Brixton; one with Counter experience preferred; must have the Apothecaries' Hall qualification. If convenient, apply, personally, any morning except Saturday, Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

### WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

L ONDON.—Wanted, qualified Pharmacist for Government work, with good knowledge of Wholesale trade, Markets, etc.; men eligible for military service need not apply. Address "A. M. D.," Box 100, Willing's, 125 Strand, W.C. 2, giving particulars of previous experience, age, and salary required.

SOUTH COAST (Brighton, Eastbourne, Folkestone, etc., etc.).— Traveller, with good connection; state age, experience, and salary required. Apply 73/64, Office of this Paper.

A SSISTANT in Surgical Instrument business in provinces. Address, stating age, duties accustomed to, and wages expected, 61/59, Office of this Paper.

REPRESENTATIVE for Chemists' Sundries, etc.; London district; ineligible. Apply 10/37, Office of this Paper.

REPRESENTATIVE required by first-class House to call upon Grocers, Oilmen, Chemists, etc.; good salary; only expert Salesmen need apply; state age, experience, and give references; disoharged Army man preferred. Apply 73/58, Office of this

OURGICAL INSTRUMENTS.—Good opening for a Junior Salesman. Apply, by letter, stating experience and salary, B., 38 Oxford Street, W. 1.

TRUSS-FITTER wanted for the Midlands; must also understand fitting Belts and Elastic Hosiery. Reply, stating full particulars and wages required, to 10/35, Office of this Paper.

### MANUFACTURING PERFUMERY.

WANTED, an Assistant, with experience in the Manufacture of Hair Washes, Pomades, Cosmetics, etc.; ineligible for the Army. Apply Osborne, Garrett & Co., Ltd., 51/4 Frith Street, Soho, W. 1.

WANTED, Junior Dental Mechanic; must be good Vulcanite worker. Apply Coverdale, Dental Surgery, 20 Parliament Street, York.

WET and Dry Room Assistants wanted at once. Apply Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

WORKS Assistants required to make Pharmacoposial Prepara-tions and Proprietaries on a manufacturing scale. Appli-cants, who must be men ineligible for the Army, must send particulars of experience, age, and salary desired to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

# SITUATIONS, OPEN.

(Colonial, Indian and Foreign.)

3e. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replied addressed to this Office, and forwarded on payment of an additional charge of 6d.

PARIS.—Wanted, immediately, competent Assistant; ineligible for military service; accustomed to good-class Dispensing and Retail. Apply to Mr. Brooks, 6 Northumberland Avenue,

WANTED FOR THE FAR EAST, an experienced Soap-maker, having a practical knowledge of the Manufacture of high-class Toilet Soaps; applicants must be ineligible for the Army; disabled soldiers, capable of supervising, are invited to apply; passage paid out and home; good salary to capable man. Send full details of experience, etc., to "P. L. S." (12/36), Office of

# SITUATIONS WANTED.

13. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

## [HOME.] RETAIL

A SSISTANT; unqualified; 43; expert, practical Photographer; A good Counter and Salesman; accustomed to good-class Family and Dispensing trade; outdoors; state salary offered. "Pyro" (12/20), Office of this Paper.

A SSISTANT; capablo of management; all-round experience; country preferred. Apply 13/14, Office of this Paper.

A SSISTANT or Branch; unqualified; 59; steady, reliable. "Drugs," 138 Kingsman Street, Woolwich.

A SSISTANT, 23, unqualified, incligible, requires evening work after 6.30; London, S.W. preferred. Apply 15/16, Office of

A SSISTANT, Locum; ineligible; disengaged 21st July. "Statim," 7 Grand Parade, Highgate, London.

CHEMIST, Salesman and Dispenser, shortly disengaged; 48; £4 weekly. "Permanency" (15/11), Office of this Paper.

DISPENSER (Hall), experienced Hospital, Dispensary, and N.H.I., desires holiday appointment, August only; gentlemanly; reliable. Smith, 77 New Barn Street, Plaistow, E. 13.

DISPENSER requires part-time employment; Northampton only. Apply 14/40, Office of this Paper.

DISPENSER, 20, ineligible, Hall and B.Sc. (lnuer.), seeks post; state terms and particulars. Mellins, 50 Great Garden Street, London, N.E.

DRUG STORES; Manager Branch; country, West preferred; single; abstainer; no ailment; 56; Hall qualification; clean, orderly; good experience. Apply 12/21, Office of this Paper.

EVENINGS, occasional Sundays; 45; qualified; varied experience. 16/31, Office of this Paper.

EXPERIENCED, qualified Manager, 38, married, exempt, desires country seaside berth about beginning September; view succession preferred; South or South-West Coast. Apply "Spes" (10/34), Office of this Paper.

L ADY Dispenser (Hall), capable Assistant, desires post in few weeks in high-class Pharmacy in or near Bournemouth; indoors preferred. Apply 15/40, Office of this Paper.

LADY Dispenser (Hall); post with Doctor or Institute; country 20 miles of London, North preferred. Miss Borrow, 69 Dunsmure Road, N. 16.

L ADY Dispenser (Hall) requires post with Chemist; one year's experience; disengaged. Apply 14/36, Office of this Paper.

LOCUM; retired Chemist; 53; terms moderate; references.

OCUM or Manager; £4; outdoors; 3rd fares. "Dispenser, 3 Milton Market, Portsmouth.

OCUM, ineligible, disengaged 21st July. "Iris," 8 Furness Road, Fulham, S.W.

OCUM; London only; July 23rd to August 4th inclusive only vacant date. "Williams" (78/17), Office of this Paper.

L OCUM or Regular; disengaged; unqualified; age 49. Desmond, 37 Upper Kennington Lane, London.

MANAGER or Locum, with or without view to purchase (cash available), by up-to-date M.P.S.; ineligible; married; Southern Counties or Coast. Particulars, salary, etc., 5 Marine Terrace, Weymouth.

MANAGER, Locum; 46; Major; disengaged. Anthony, 17 Shelton Road, Merton Park, Wimbledon, S.W. 19.

MANAGER or Assistant, unqualified, married, no children, would like situation in country; rejected for Army; London experience. Apply 15/36, Office of this Paper.

Manchester district.—Experienced man offers evening services to Chemist; at liberty 5.30. "N.H.I.," 407 City Road, Cornbrook.

OXFORDSHIRE OR NEAR.—Qualified; good Dispenser; 48. Apply 12/40, Office of this Paper.

PHARMACIST (qualified); over military age; good all-round experience; steady; salary £5 weekly. Apply 17/2, Office of

PHARMACIST'S LOCUM.—Burton Middleton, M.P.S., 20 Merton Avenue, Chiswick, W. 4, is prepared to book engagements for week, month, or longer; town or country.

QUALIFIED, elderly, single, requires light work; all-round experience; Manchester or district. M. C., 159 Regent Road, Salford.

QUALIFIED; 41; exempt; Senior or Manager; worker with credentials; London. "Minor," 9 Broomhill Market, Ilford.

RELIABLE Dispenser and Surgery Attendant, 29, disengaged July 15th, requires Locum or permanency with Doctor or Institution; last situation 5 years with Doctor. Write Mr. M. Birch, 16 Melrose Gardene, Brook Green, W.

UNQUALIFIED, 30, ineligible, seeks change; disengaged July 21st; 15 years' good-class experience Dispensing, Counter, Photograph, West-End, City, Country, and Scaside; good wages wanted. 13/11, Office of this Paper.

UNQUALIFIED, age 47, active, good-class Counter, obliging, used quick trade, wishes change to South or West; 5 years present; salary 50s. Offers, with description of business, to 'Hexamine' (15/28), Office of this Paper.

### WHOLESALE.

CHEMIST, 30, ineligible, good appearance and address, 15 years' Retail, offers services as Representative: given opportunity, will make success. 13/110, Office of this Paper.

CHEMIST, well up in Galenicals, B.P., Toilet Preparations, etc., wishes to join good firm, London or suburbs; best references; military exempted. 16/29, Office of this Paper.

 $E^{\rm XPERIENCED}$  Traveller, all branches Drug trade, seeks engagement; obtaining discharge after nearly three years' active service with A.M.C.; highest credentials. Address "Staff-Sergeant" (12/4), Office of this Paper.

ADY, Hall qualification, good experience in Drugs, wants position with Wholesale house. Apply 14/21, Office of this Paper.

N. FARTHING, Clifton-Wood, Bristol, already representing a class Hairdressers, and Stores, West of England and South Wales ground, desires another Agency on commission and part expenses terms.

QUALIFIED Chemist, with 30 years' experience at home and abroad, having disposed of his Business, wishes position as Representative for a good House at home or abroad or in administrative capacity in the Wholesale; exceptional references. Replies to 277/26, Office of this Paper.

SMART man wants to represent first-class House Counties of Durham, Cumberland, Northumberland, and Westmorland, for duration of war; good opportunity for firm whose traveller has been called up. Apply 16/33, Office of this Paper.

TRAVELLER.—Chemists, South-Eastern Counties, open for additional Line; commission and part expenses. "T." (12/24),

TRAVELLER, permanent Army discharge, desires berth; first-class Wholecale Druggists' experience; well educated. Apply 16/3, Office of this Paper.

# MISCELLANEOUS.

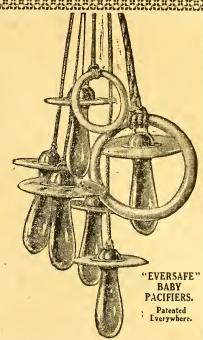
M CADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone: 81 Lee Green. Shares for Sale (free of Commission, subject).—4 Camwall Ord. and 1 Prcf., 98. the lot; 200 International Sponge Ord., 68. 7½d.; 100 International Cold Storage 10% Pref., 88. 9d.: 190 Lewis & Burrows Ord., 68. 6d.; 350 6% Pref., 15s. 16½d.; 50 A. J. Wanted (subject).—200 Wright Layunan & Umney Pref.; Allenbury Pref.; 500 Day & Martin, 5s. 7½d. Every effort made to effect business for Buyers and Scllers in all Stocks and Shares. Bankers, London County and Westminster.

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CLEAR BLUE TINTED, plain or graduated. 3 and 4 ounce. 6 and 8 ounce.

CLEAR BLUE TINTED, 6 and 8 of 12 ounce.

12 ounce.

WHITE PHIALS, plain or teaspoons.

13 ounce.

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BLUE LOTION BOTTLES, all sizes.

CORKS. Superior Quality. No advance in price.
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D. W. BULL,

4 Churchill Road, Homerton, E 9,

# WAR WANTS EXCHANG

For the terms upon which announcements are inserted herein see Supplement for June 30, p. xxxvi.

### WANTED.

Aspirin (Bayer's original) Ems Kranschen water (77/12) grains 5 and 7½ (77/8) Phenacetin (77/12) Chinoral (77/12) Protargol (77/12) Chinosol soloids (77/12) Elcaya creme (77/12) Eugallol (77/12) Rhinoculin cream Saecharin pulv. or tablets (5 lb.) (13/12) Euresol pro capillis (77/12)

### FOR DISPOSAL.

Santonine, 1 oz. (76/60)

# EXCHANGE COLUM

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

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## FOR DISPOSAL.

### DENTAL.

FOR Sale, 12 Dental Show-pieces. R. Lamb, 123 West End Lane, London.

ONE Dental Chair for Disposal. Address Chester, 61 Peckham Rye, S.E. 15.

### DRUGS AND CHEMICALS.

3 LB. Permanganate of Potash, 15s. 6d. lb.; offer for lot preferred. Cullen, Chemist, Norwich.
FOR Disposal, 2 lb. Iodine Resub., 2 lb. Bis. Carb., 1 lb. Ferri et Amm. Cit., 1 lb. Ferri Quin. Cit., 1 oz. Exalgin, 4 oz. Hydrokinone, 3 oz. Heliotropin, 8 oz. Thiocol. What offers? 15/39, Office of this Paper.

### MISCELLANEOUS.

OFFERS.—3 lb. Potass. Permang. (medinm); two Carboys (pear), width 55, height 37, cut stoppers; 5-pint Seltzogene by Fevre, Paris, close wicker, shop-soiled. Foster, Friargate Pharmacy, Preston, Lancs.

### WANTED. >

POND'S Vanishing Cream. Apply 77/120, Office of this Paper. TABLET Machine for power; give full particulars. Walton, Batley

SACCHARIN wanted. Give full particulars to Walton, Chemist,

Batley Carr.
TOXICOLOGY. Up-to-date books. State price and date. Ashton,
Chemist, Brighton.

BENT Mahogany Counter Case, about 29 long, 11 wide, 8 high.
Waddington's Stores, Morecambe.
WANTED for cash, Photographic Plates, Cameras, Mounts, sundries. Wilsons, Chemists, Wigan.

SALIOINE; large or small quantities; spot cash; state price and quantity. Russell, 27 Store Street, W.C. 1.

WANTED, original barrels Tar (Stockholm, Archangel). Price and quantity to 15/4, Office of this Paper.

MILL (Edge Runner) or combined Grinder and Mixer; copacity 1-3 cut. for power. Phone: Museum 160. Manager, 2 Eden Street, N.W. 1.

TABLET Machine wanted for tablets ½ inch or slightly larger; hand or power; state condition and price. Tranmer, High Street, Smethwick.

ROTARY Pill Machine, 3-grain, hand or power, wanted; state width of rolls and price; must be 3-grain. Apply 2/10, Office of this Paper.

of this Paper.

VANISHING-CREAM Mixing Machine required; capacity about 30 galls., with H.W. jacket; power driven. Partionlars, Edwards' Harlene, Ltd., 20-26 Lamb's Conduit Street, W.C.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

FORMULA for good Garden Pest Destroyer, wireworm, greenfly, ants, etc.; state whether poisonous, harmful to plants, approximate making cost. Russell, 27 Store Street, London, W.C. 1.

WANTED, Tins for tooth powder, vaselines, etc. Also Cardboard Packages for Fuller's earth, boracio acid. Also any quantity boracic acid, Fuller's earth, rosin. Also a large Mortar. Good prices paid or will exchange Chemical Apparatus. 10/33, Office of this Paper.